PAPUA NEW GUINEA
POLIO OUTBREAK RESPONSE
First 100 Days
22 June—30 September 2018
A Dedication to the Frontline Polio Workers of Papua New Guinea

The polio outbreak response in Papua New Guinea is led by the National Department of Health of Papua New Guinea, with support from the World Health Organization (WHO), United Nations Children’s Fund (UNICEF), the Global Polio Eradication Initiative (GPEI), Rotary International, Bill & Melinda Gates Foundation and many other partners.

The outbreak response operations had been made possible through the tireless commitment, dedication and hard work of the thousands of frontline polio workers who braved challenges to ensure children are protected from polio.
It was early morning in late April 2018 when a six-year-old boy named Gafo woke up with hurting legs. He was excited to play with his friends so he ignored the pain. But he fell as soon as he got up from his bed — his legs were so weak that he could barely move.

In the next two days, Gafo’s pain got worse, even with his mother Soya’s constant massaging. On the third day, the family decided to bring Gafo to Angau Memorial General Hospital in Lae, Morobe, in the central northern coast of Papua New Guinea. After a series of tests, it was confirmed that polio was the cause of Gafo’s paralysis. It was later discovered that the virus was circulating in the community.

For many weeks, Gafo was the nameless and faceless “first polio case in Papua New Guinea in 18 years” that was reported in the national and international media.

Gafo’s parents have started to understand that his paralysis will never be cured, but they are determined to minimize Gafo’s difficulty of movement with the regular therapy he is receiving from his doctor, Dr Winnie Sadua, at Angau Memorial General Hospital.

Gafo’s parents believe that his paralysis was instrumental in raising awareness of polio in Papua New Guinea. His story paved the way for more children trooping to vaccination sites when the government launched mass polio vaccinations as part of the outbreak response.

A Profile
“My son may not have the normal life we prayed for, but he will always be a special boy,” said Gafo’s mother, Soya. “What happened to my son has increased awareness of polio and many mothers are having their children vaccinated, saving these children from lifelong paralysis.”

Morobe Provincial Polio Response Coordinator, Mr Micah Yawing, echoed the sentiment: “This boy is a gift to the children of Papua New Guinea. Because of him, we are able to vaccinate and protect many children in Morobe Province. If it wasn’t for this kid, we probably still wouldn’t know that we have an outbreak on our hands. I hope that we can find the support he needs, especially for his education.”

Two weeks ago, Gafo was unable to walk and had to be carried everywhere. However, with help from the Morobe Provincial Health Office and Angau Memorial General Hospital, Gafo receives regular check-ups and therapy. He still cannot run, but has developed his own unique gait, moving rapidly to keep up with his friends and his sister Sola.

Next year, Gafo will start going to school — an idea that lights him up with excitement: “I want to become a doctor -- giving injections to children and making them feel better when they are sick.” His parents hope that, with support from the Government and others, Gafo will receive a good education so that his dreams can come true.
The First 100 Days of the Polio Outbreak Response in Papua New Guinea: A Summary

Papua New Guinea confirmed a polio outbreak on 22 June 2018 when a vaccine-derived poliovirus type 1 (VDPV1), first detected in a 6-year old boy from Morobe Province, was also isolated in two healthy children from the same community, indicating that the virus was circulating.

On the same day, Papua New Guinea notified the World Health Organization as per required under the International Health Regulations (IHR, 2005). A public announcement was made on 25 June 2018.

On 26 June, a National Emergency was declared by the Government of Papua New Guinea. The National Emergency Operations Centre for Polio Response was activated the day after.

Since the confirmation of the outbreak, two rounds of the polio vaccination campaign have been implemented to protect children under 5 years old against polio.

- The first round covered the three high-risk provinces of Morobe, Madang and Eastern Highlands where 303,907 children under 5 years old were vaccinated.

- The second round covered nine provinces of Morobe, Madang, Eastern Highlands, Western Highlands, Southern Highlands, Jiwaka, Enga, Chimbu and Hela where 690,953 were vaccinated.

A total of 1.6 million doses of vaccines have been shipped to the country for use in the first two rounds of the vaccination.

A system was put in place to rapidly detect and identify cases of polio through enhanced surveillance for acute flaccid paralysis (AFP). Since the confirmation of the outbreak, Papua New
Guinea has reported 14 cases of polio: five in Eastern Highlands, three in Morobe, two in Enga, two in Madang, one in the National Capital District and one in Jiwaka.

Communication and community engagement had been a key pillar of the response operations. A multi-media approach was used to create demand for polio vaccination, maximizing both traditional media (newspapers, TV, radio, posters, flyers), social media engagement (Facebook, text messaging) and interpersonal communication (community meetings, use of loud hailers). Regular media conferences were held.

There have been more than 90 international polio workers from the World Health Organization (WHO), United Nations Children’s Fund (UNICEF) and the US Centers for Disease Control and Prevention (CDC) that have been deployed to the country, covering the expertise: coordination, outbreak management, surveillance, immunization, risk communication, vaccine management, communication for development, health operations and logistics, finance, administration and others.

Advisory to travelers on polio vaccination have been issued, as per required under the IHR (2005). Public health measures between Papua New Guinea and Indonesia have been agreed during the cross-border meeting on 13 September 2018.

The outbreak response plan of Papua New Guinea includes three main components: (1) supplementary immunization activities (four sub-national and national vaccination rounds); (2) enhanced surveillance; and (3) communication. The total estimated budget for the plan is US$ 18 million, against which the Government has committed approximately US$ 2.2 million (PNG Kina 6.7 million), releasing PNG Kina 2 million for the first and second rounds of the vaccination campaigns.

Financial support for the outbreak response includes the Bill & Melinda Gates Foundation, Rotary International, United States Agency for International Development (USAID), Canada, the Republic of Korea, United Kingdom and Australia. The Global Polio Eradication Initiative (GPEI) partners, in partnership with the Government, will continue to work with donors to secure the urgently required outbreak response funding.
**CHRONOLOGY of the First 100 Days**

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**22 June**
- Papua New Guinea confirmed a polio outbreak
- PNG notifies WHO under the International Health Regulations (IHR, 2005)

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**26 June**
- National Emergency was declared by the Government of Papua New Guinea

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**3 July**
- Polio outbreak was designated as Grade 3 outbreak in line with GPEI criteria

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**10 August**
- Fourth case from Eastern Highlands Province confirmed

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**3 August**
- Third case from Enga Province confirmed

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**24 August**
- Fifth and Sixth cases confirmed: Madang and Eastern Highlands

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**31 August**
- Three cases confirmed (Morobe, Madang and Enga). The 9-year-old boy from Enga was the oldest confirmed with polio, to date.

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**6 September**
- Tenth case for the country; and the first case reported from Port Moresby, the capital of PNG

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**10-14 September**
- Emergency vaccination in the affected community, covering 5,097 children

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**13 September**
- PNG and Indonesia agree on cross border measures to prevent spread of polio

---

**16-29 July**
- Polio vaccination covering 3 provinces: Morobe, Madang and Eastern Highlands

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**24 September**
- Polio vaccination starts in the National Capital District

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**26 July**
- Second case from Morobe Province confirmed

---

**30 September**
- Polio Emergency Operations Centres established in all 22 provinces of the country in time for the nationwide campaign

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**20 Aug-9 Sep**
- Polio vaccination covering 9 provinces: Morobe, Madang, Eastern Highlands, Western Highlands, Southern Highlands, Jiwaka, Enga, Chimbu and Hela

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- Polio vaccination covering 9 provinces: Morobe, Madang, Eastern Highlands, Western Highlands, Southern Highlands, Jiwaka, Enga, Chimbu and Hela

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**3 Aug**
- Third case from Enga Province confirmed

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**7-8 September**
- Rapid response in the 5-Mile Settlement, Port Moresby including field investigation

---

**13 September**
- PNG and Indonesia agree on cross border measures to prevent spread of polio

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**11 September**
- Two additional cases from Eastern Highlands, bringing the total to 12 cases.

---

**25 June**
- PNG announces the outbreak to the public

---

**27 June**
- National Emergency Operations Centre for Polio Response was activated

---

**3 Aug**
- Third case from Enga Province confirmed

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Confirmed Polio Cases in Papua New Guinea
(as of 30 September 2018)

LEGEND:  
- red circle: cases
- gray circle: contacts
- orange star: National Capital District
Outbreak Management

The overall management of the polio outbreak response is led by the Government of Papua New Guinea, through the National Department Health at the national level and the Provincial Health Authorities/Offices at the provincial level. The World Health Organization (WHO) and United Nations Children’s Fund (UNICEF) provide technical and financial support to the response operations. The key functions in the outbreak management are identified in the Organogram.
Managing Information for Decision, Action and Dissemination

The National EOC receives reports from multiple sources on a daily basis. Key sources of information are the Provincial EOCs, technical team leaders, surveillance officers, health workers, stakeholders, media organizations and the general public. Key updates are synthesized for presentation in daily morning meetings and are used in decision making, risk assessment, agreement on action points and for dissemination to the partners and the public.

Weekly situation reports are issued to summarize highlights of the polio response operations. Since the start of the outbreak, 19 internal situation reports have been produced. These reports have been circulated to the senior management and technical teams for use in risk assessment and have also become basis for the development of external communication products such as media releases, web updates and social media posts.

**Information Sources**
- Provincial Emergency Operations Centers
- Surveillance officers
- Hospitals, health facilities and health workers
- Doctors and clinicians
- Laboratories
- Social mobilizers and vaccinators
- Local NGOs
- Media monitoring results
- Inquiries from the public

**National Emergency Operation Center in Port Moresby** collates the information on a daily basis for:
- Decision-making on issues
- Management of operations (financing and deployment of personnel, supplies and materials)
- Policy guidance such as issuance of advisories
- Development of communication products

**Situation Reports**
19 internal situation reports issued) – distributed to all levels of the implementing organizations

**Communication Products**
- media releases, media conferences, partner updates,
- web products, social media posts, etc.
High-Level Support to the Polio Outbreak Response

Dr Shin Young-soo, Regional Director of the World Health Organization for the Western Pacific visited Morobe Province to support the polio vaccination campaign in Lae. He talked to parents to explain the risk of polio and the importance of vaccination. He commended the polio workers for their commitment and sacrifice in the response operations.

Dr Shin also re-affirmed WHO’s commitment to the Government of Papua New Guinea during his meeting with the Prime Minister Peter O’Neill and Sir Dr Puka Temu, Minister for Health & HIV/AIDS.
EMERGENCY OPERATIONS CENTER: Connecting People for Coordinated Polio Outbreak Response

Emergency Operations Centers serve as command-and-control mechanism critical in managing the polio response at the strategic, technical and operational levels.

With support from WHO, all 22 provinces of Papua New Guinea have established EOCs to serve as hub for structured and coordinated response activities. The Provincial EOCs are linked to the National EOC based in Port Moresby.
The National Emergency Operations Center (NEOC) was activated on 27 June 2018, a day after the Public Health Emergency was declared. The National EOC serves as the nerve center that connects and supports the functionality of the provincial EOCs. It connects people and expertise to deliver the key functions in the Incident Management System (IMS).

The EOCs were instrumental in the success of the polio campaign. The EOCs ensured effective planning, monitoring, reporting and making mid-course corrections in the campaign strategies.

Feedback from the Provinces Campaign Review Meeting, 10 August 2018
PROVINCIAL Emergency Operations Center: Bringing the Operations to the Field Level

“The Emergency Operations Center enabled us to work together as a team in a more systematic way. The EOC was where we planned our activities, agreed on our strategies, reported our progress, assessed our actions and shared our daily challenges. This was where people came when they wanted to know what was happening with our response. I thank WHO and partners for helping us not only with equipment, materials and supplies, but for installing a management system to better manage our work.”

Micah Yawing
EOC Coordinator, Morobe Province
Polio Vaccination Coverage: ROUND 1

16-29 July 2018 in 3 provinces (Morobe, Madang and Eastern Highlands)

**POLIO WORKERS MOBILIZED** | **2,900**
---|---
**COVERAGE** | **105%**

<table>
<thead>
<tr>
<th>Province</th>
<th>Target number of children under 5 years old</th>
<th>Number of children vaccinated</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOROBE</td>
<td>108,671</td>
<td>126,312</td>
</tr>
<tr>
<td>MADANG</td>
<td>83,532</td>
<td>82,705</td>
</tr>
<tr>
<td>EASTERN HIGHLANDS</td>
<td>97,379</td>
<td>94,890</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>289,582</strong></td>
<td><strong>303,907</strong></td>
</tr>
</tbody>
</table>

Polio vaccinations were done in:
- fixed sites (aid posts, health centres, hospitals and markets)
- mobile sessions (house-to-house and roadside services)
- outreach activities (travelling to remote places by walking; taking a boat or chopper and staying overnight in villages)
- special session in markets, bus stops, beach areas and other major community gatherings

There were more children vaccinated than the target populations, especially in urban areas due to migration and inclusion of transit populations.
Polio Vaccination Coverage: ROUND 2

20 August-9 September 2018 in 9 provinces
(Morobe, Madang, Eastern Highlands, Western Highlands, Southern Highlands, Jiwaka, Enga, Chimbu and Hela)

Polio is a highly infectious viral disease that mainly affects young children. Polio can cause lifelong paralysis, even death, in non-vaccinated children. Polio has no cure. Children can be protected from polio only with vaccination.

Children will need to receive multiple doses of oral polio vaccine (OPV), irrespective of previous immunization status, to get full protection.

Polio Vaccination Coverage: ROUND 2

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<td>Eastern Highlands</td>
<td>97,379</td>
<td>97,062</td>
</tr>
<tr>
<td>Western Highlands</td>
<td>63,553</td>
<td>57,875</td>
</tr>
<tr>
<td>Southern Highlands</td>
<td>89,369</td>
<td>89,505</td>
</tr>
<tr>
<td>Jiwaka</td>
<td>71,271</td>
<td>55,464</td>
</tr>
<tr>
<td>Enga</td>
<td>77,279</td>
<td>72,492</td>
</tr>
<tr>
<td>Chimbu</td>
<td>66,869</td>
<td>53,897</td>
</tr>
<tr>
<td>Hela</td>
<td>42,188</td>
<td>41,949</td>
</tr>
<tr>
<td>TOTAL</td>
<td>700,111</td>
<td>690,953</td>
</tr>
</tbody>
</table>
Detecting Polio Cases: Enhancing Surveillance for Acute Flaccid Paralysis

One of the key interventions for the outbreak response is to put in place a system for enhanced surveillance for acute flaccid paralysis (AFP) or “suspected polio cases”. Surveillance officers, graduates of field epidemiology training programme (FETP), pediatricians, clinicians and surveillance focal persons have been trained to identify and investigate AFP cases in the field, collect stool specimen for laboratory testing, actively search for cases and conduct medical record review.

Since the start of the outbreak in June, there have been 140 reported AFP cases. Of these AFP cases, Papua New Guinea has confirmed a total of 14 cases of polio as of 30 September in six provinces: five in Eastern Highlands, three in Morobe, two in Enga, two in Madang, one in the National Capital District and one in Jiwaka.
Polio Outbreak Response in the Capital City

Port Moresby reported its first case of polio on 6 September in a 6-year old boy from 5-Mile Settlement in Port Moresby. Rapid response operations were immediately conducted on 7-8 September that included field and clinical investigations, identification of close contacts and collection of stool samples. Based on risk assessment, an emergency vaccination was implemented on 10-14 September, covering 5,097 children in the settlement.

The province-wide polio vaccination campaign in the National Capital District was started on 24 September until 8 October 2018 – a week ahead of the nationwide campaign on 1 October. Teams of polio workers are set to vaccinate 170,195 children under 15 years old during the two-week period.

Timeline for the Emergency Response in Port Moresby

6 September
First case of polio reported from Port Moresby, the capital of Papua New Guinea

7-8 September
Field and clinical investigation, identification of contacts and collection of samples

10-14 September
Emergency vaccination in the affected community, covering 5,097 children

24 September
Province-wide polio vaccination started in the National Capital District for children under 15 years old

Integrating Polio Vaccine in the Human Papillomavirus (HPV) Vaccination for Girls in Schools

To integrate to the ongoing health service delivery activities, polio vaccine was also given to school-age girls who were receiving human papillomavirus (HPV) vaccines in some schools in Port Moresby.
Environmental Surveillance

To supplement AFP surveillance system, a team from NDOH and WHO is also monitoring poliovirus in human populations. A national plan for environmental surveillance has been developed and five sites from two cities, Lae and Port Moresby, have been selected for environmental sampling.

The first environmental samples were taken from Port Moresby on 5 September, by water and sanitation service provider Eda Ranu and National Capital District Commission (NCDC) Health. The environmental samples from Lae will be taken on 1 October, by water and sanitation service provider Water PNG, and Lae Urban Authority, Lae District, and Morobe Province.

The Central Public Health Laboratory (CPHL) Surveillance unit, the WHO accredited National Reference Laboratory based in Port Moresby assists in sending environmental samples (sewage) to the Philippines for polio culture.

Papua New Guinea is the fourth country in the Western Pacific region to establish environmental surveillance. To build capacity in-county, WHO conducted laboratory training with participants from Central Public Health Laboratory and Angau General Memorial Hospital laboratory, in Manila, Philippines on 24-26 September 2018.
Laboratory Testing of Polio Cases

For every case of acute flaccid paralysis, stool specimens are collected at the provincial level and shipped to the Central Public Health Laboratory (CPHL) Surveillance Unit, the WHO accredited National Reference Laboratory based in Port Moresby.

The CPHL ensures that the stool samples collected by clinicians around Papua New Guinea are properly labelled, packed and shipped to Victorian Infectious Diseases Reference Laboratory (VIRDL), a WHO Polio Regional Reference Laboratory located at the Doherty Institute, Melbourne, Australia.

More than 400 stool specimens have been received at the Doherty Institute from AFP cases and contacts of AFP cases since the polio outbreak was declared in Papua New Guinea in June 2018. It usually takes 14 days for the laboratory to test every sample they receive.

Once the poliovirus is confirmed, further genetic analysis is made at the United States Centers for Disease Control and Prevention (US-CDC).
Communicating risk of polio: being first, frequent and factual

Risk communication for the polio outbreak response was anchored on trust building and engaging with communities, demand creation for polio vaccine, evidence-based messaging, and coordinated public engagement.

A multi-platform approach was used, maximizing both traditional media (radio, posters, flyers), social media engagement (Facebook, text messaging) and interpersonal communication (community meetings, use of loud hailers). Weekly media conferences were held and news updates were consistently issued.

Rumors and sporadic reports of vaccine misinformation were immediately addressed.

Social mobilizers were trained and embedded in polio teams – both in fixed sites and mobile units that conducted house-to-house vaccinations. Most of the mobilizers were volunteers from communities, church workers and students and were instrumental in gathering feedback on community perceptions. Posters, banners, loud hailers and talking points were provided to mobilizers to support community engagement.

To heighten awareness in villages, the National Broadcasting Corporation provided free air time in the first two rounds of the campaign. Key messages focused on the country being in the midst of the outbreak, that young children are at risk, no treatment for polio and prevention through vaccination.
A number of reported rumors and misconceptions have been documented, and these were quickly managed either through an influential person/group, dialogue with church groups and getting media support. Some examples below:

- A religious group in Western Highlands was reported to be preaching that everyone can be healed by faith, including polio, implying that vaccination is not necessary. A meeting with 160 leaders led to eventual acceptance of vaccination.
- There was also a rumor that vaccination is the mark of the devil (“666”). This was countered by going through the leaders of churches and congregations who called on their priests and pastors to correct the rumor using the churches and media.
- Some of the other documented rumors were: vaccination decreases intelligence levels and fertility. A family that initially refused vaccination due to an influence by a relative was visited by a health worker/doctor to explain the benefits of vaccines and the family eventually agreed to be vaccinated.
Frontline polio workers in Papua New Guinea, in order to reach every child for polio vaccination, spent long hours in the field, took small boats to cross rivers and seas, navigated mountains for days and flew in helicopters in order reach every child and protect them from polio.

In Morobe, there were 76 helicopter trips made to carry polio workers, vaccines and other supplies to mountainous and hard-to-reach Districts of the province during the first round of the campaign in July 2018. Health workers stayed in those districts for days, walked long distances to reach mountainous villages, conducted house-to-house vaccinations, and then waited for the helicopter to come back to pick them up.
Representatives from Papua New Guinea and the Republic of Indonesia agreed on cross border measures to prevent the spread of polio, measles, rubella and other vaccine-preventable diseases between two countries during its meeting on 13 September in Port Moresby.

The cross border meeting aimed to enhance coordination and collaboration between countries and strengthen surveillance across the border through regular exchange of surveillance and immunization information.

“The meeting was critical as Indonesia is our strategic neighbor. The collaboration between our countries will enable us to jointly protect both our citizens from infectious diseases. Working together ensures our public health measures are coordinated as per recommendations of the International Health Regulations (IHR, 2005).”

Dr Sibauk Vivaldo Bieb
Acting Deputy Secretary and National Polio Response Coordinator of NDOH Papua New Guinea
Polio Vaccines and Logistics

To date, more than 5.7 million doses of oral polio vaccines have been procured for use in the first two rounds of the campaign and pre-positioned for the nationwide vaccination campaign in October. These vaccines arrived in the following schedules:

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Doses of Polio Vaccine</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 July 2018</td>
<td>611,000</td>
</tr>
<tr>
<td>6 August 2018</td>
<td>998,000</td>
</tr>
<tr>
<td>4 September 2018</td>
<td>1,582,000</td>
</tr>
<tr>
<td>18 September 2018</td>
<td>1,582,000</td>
</tr>
<tr>
<td>30 September 2018</td>
<td>976,300</td>
</tr>
<tr>
<td><strong>TOTAL Vaccines in country</strong></td>
<td><strong>5,749,300</strong></td>
</tr>
</tbody>
</table>

To ensure proper storage and handling of vaccines to remain effective, faulty vaccine refrigerators in the provinces were repaired and new refrigerators were installed.

Finger markers, supplies and other materials were also distributed to the provinces for use in the campaign.
Human Resources

There have been more than 90 international polio workers from WHO, UNICEF and the US-CDC that have been deployed to the country, covering the following expertise: coordination, outbreak management, surveillance, immunization, risk communication, vaccine management, communication for development, health operations and logistics, finance, administration and others.

70 international experts from WHO
(coordination, outbreak management, surveillance, immunization, vaccine management, risk communication, health operations, logistics, finance, administration, procurement, etc.)

12 international experts from UNICEF
(immunization, vaccine management, communication for development, logistics, administration, procurement, etc)

11 international experts from US-CDC
(surveillance)

National experts and administrative staff of the WHO Country Office in Papua New Guinea provide day-to-day logistical and administrative support such as transport, procurement, etc.
United Nations agencies, embassies and international organizations were also provided an update on the polio campaign activities in July 2018.

The polio outbreak response in Papua New Guinea was supported by numerous international and local organizations. Some of them are as follows*:

- National Broadcasting Corporation of Papua New Guinea (Radio and TV Stations)
- Council of Churches
- International Federation of the Red Cross
- Rotary International
- Department of Foreign Affairs and Trade of Australia
- Yamana Mine
- Barrick Mining Company
- Binatang Research Centre and Ramu Sugar
- World Vision
- Susu Mamas
- Marie Stopes
- YWAM Medical Ship
- Wafi Gold Mine
- Touching the Untouchables
- Barola Haus Mama
- CARE International
- Oil Search Foundation
- Susu Mamas
- Digicel
- ANZ Bank Staff Foundation
- Eagle FM

*The list is not comprehensive.

The Voice Behind the Polio Radio Spots

The National Broadcasting Corporation (NBC) contributed significant amount of airtime in its radio and TV channels to promote the polio vaccination campaign during the first two rounds -- from July to September. Kevin Marai was the voice behind all the radio and TV spots broadcasted on polio campaign for the NBC.
Donor Contributions

To date, the total estimated budget for the Papua New Guinea Polio Outbreak Response Plan is US$ 18 million, against which the Government has committed approximately US$ 2.2 million (PNG Kina 6.7 million), releasing PNG Kina 2 million for the first and second rounds of the vaccination campaigns.

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**WAY FORWARD**

The polio outbreak response plan of Papua New Guinea focuses on three main components: (1) supplementary immunization activities (four sub-national and national vaccination rounds); (2) enhanced surveillance; and (3) communication.

For the supplementary immunization activities, two national immunization campaigns are planned targeting more than 3.26 million children under 15 years old across 22 provinces. The first national vaccination campaign starts 1 October 2018. Another round is scheduled two weeks after – from 22 October 2018.

In terms of enhanced surveillance, the priority would be in strengthening the capacity of the provincial health practitioners in detecting cases of acute flaccid paralysis, active case finding and maintaining a robust system to conduct case investigations and sample collection.

The risk communication and social mobilization approaches will transition into strategic communication strategies that would have long-term benefits to the affected communities beyond the emergency phase. This would include techniques that sustain people’s and media interest on polio, promote long-term behavior changes and increase uptake of routine immunization.