ANNEX 2: COUNTRY OR AREA-SPECIFIC POLIOVIRUS DATA

Facilities are encouraged to use Table 1 of Annex 2, in conjunction with the *Guidance to minimize risks for facilities collecting, handling or storing materials potentially infectious for polioviruses,* to assess the risk of sample collections potentially infectious for poliovirus.

Identifying all laboratory samples at risk for containing poliovirus is essential for securing a polio-free world. Presence of poliovirus in a given country can only be ruled out with active AFP surveillance. The data and information shown in Table 1 was collected from multiple sources using the following algorithm for each country:

- Data was derived from national poliovirus reports and a systematic literature search in consultation with WHO regional offices. Resulting dates of reported WPV indigenous, WPV outbreak, and cVDPV outbreak circulation were recorded in the table.
- If no dates were reported for a specific type of poliovirus in a given country, the date of the last reported clinically confirmed poliomyelitis case was used. Clinically confirmed cases were poliomyelitis cases diagnosed by medical doctors without virological confirmation, so the case may have been caused by any of the three types of WPV and no type can be excluded.
- If no dates were reported for a specific type of WPV in a given country AND no clinically confirmed cases were reported, the date of last reported case of that WPV type in the country's WHO Region was used OR the date national AFP surveillance began, whichever date was earliest.

Table 1 is regularly revised and updated.

WHO makes no warranties regarding the content, completeness or accuracy of the data and information, and shall not be held liable for any damages whatsoever resulting from their use or application.[1]

How to use this table

1. For a given stool, respiratory, or concentrated sewage sample, determine the country of origin and date of collection. If this information is unknown, the sample should be destroyed or inactivated using a method known to inactivate poliovirus.
2. For each sample of known origin and date of collection, refer to the country of origin in the table. According to the date of collection, determine under which column the sample falls. If the sample falls under the column:
    a. **WPV/VDPV PIM Dates**[2], this sample must be destroyed, inactivated, or handled under full GAPIII containment. Please note that until WPV1 and 3 are declared eradicated, WPV2/cVDPV2 PIM is the only type of WPV PIM that requires immediate action.
    b. **OPV2/Sabin2 PIM Dates**, this sample is considered OPV2/Sabin2 PIM and may only be handled outside of GAPIII containment under the specific conditions outlined in this guidance.

Table 1: important notes

All dates: Table dates include month and year of circulation for a given virus type. If the specific month of a date was unknown, December is the default month.

WPV PIM Dates: The dates for circulation of all three WPV types in each country are listed in this table. Often the dates of two or more types of WPV will overlap. The breakdown of WPV circulation dates by type is provided so that type-specific WPV PIM inventories may be performed and that actions related to identification of WPV2 PIM, currently requiring containment, may be prioritized.

[1] For any comments or questions, please contact containment@who.int.
[2] These columns include the dates of indigenous WPV circulation, WPV outbreaks, and cVDPV outbreaks.

The columns included under this heading list the last known dates of 1) indigenous WPV 2) outbreak WPV, and 3) cVDPV for each type. Indigenous circulation dates are listed as "until" a specified date, and samples collected on preceding dates are considered to be WPV PIM. WPV and cVDPV outbreaks include a start and end date and all dates and any samples collected during this time are considered WPV PIM. cVDPV outbreak dates are indicated with italics and a footnote. Bold countries and dates indicate ongoing WPV or cVDPV outbreaks at time of publication. Dates of single cases of WPV importation, aVDPV cases, and iVDPV cases are not included in this table. All WPV/cVDPV dates include a reference and/or a footnote denoting the information source.

- **WPV1/cVDPV1 column**: WPV1 is still endemic in three countries: Afghanistan, Pakistan, and Nigeria. As of October 2018, WPV1 outbreaks in Afghanistan and Pakistan are ongoing and WPV1 has not been detected in Nigeria since August 2016. As of October 2018, a cVDPV1 outbreak is ongoing in Papua New Guinea.
- **WPV2/cVDPV2 column**: The red highlighting of this column indicates that samples collected during these dates require immediate action. WPV2/cVDPV2 PIM is required to be destroyed, inactivated, or handled under full GAPIII containment requirements. As of October 2018, cVDPV2 outbreaks are ongoing in Democratic Republic of Congo, Niger, Nigeria, and Somalia.
- **WPV3/cVDPV3 column**: As of October 2018, a cVDPV3 outbreak is ongoing in Somalia.

OPV2/Sabin2 PIM Dates column: The red highlighting of this column indicates that samples collected during these dates require immediate action. OPV2/Sabin2 PIM may be handled outside GAPIII containment only under the specific conditions outlined in this guidance.

WHO vaccination databases and national reports were consulted to determine the dates of OPV2/Sabin2 circulation. The OPV2/Sabin2 PIM dates for a country or territory generally start immediately following the last known dates of circulation of WPV2/cVDPV2. The year of tOPV introduction[1] and month and year of last tOPV use[2] are indicated for each country in the footnotes. To define the end dates of OPV2/Sabin2 circulation, 3 months were added to the last known use of tOPV or mOPV2 in each country or territory. In countries showing evidence of continued use of tOPV post-switch, the last date of OPV2/Sabin2 circulation was adjusted to the latest detection. In absence of evidence showing otherwise, samples collected after the dates listed in this table are not considered OPV2/Sabin2 PIM.

It must be emphasized that a sample collected during dates of WPV/cVDPV circulation are considered WPV PIM, which presents a higher risk than OPV/Sabin PIM. However, only samples that are WPV2/cVDPV2 PIM or OPV2/Sabin2 PIM immediately require special actions. Due to the process used for defining the OPV2/Sabin2 PIM dates defined above, the type 1 and 3 WPV/cVDPV PIM dates frequently overlap with the OPV2/Sabin2 PIM dates for a given country or territory. In these cases, these samples are considered first and foremost to be high-risk WPV PIM but are only immediately required to be handled as OPV2/Sabin2 as WPV1 and 3 are not yet subject to GAPIII containment. Upon declaration of eradication of all poliovirus types, ALL samples collected during the WPV PIM dates identified in this table will be required to be destroyed, inactivated, or handled under full GAPIII containment.

This Annex 2 must be read in conjunction with the document *Guidance to minimize risks for facilities collecting, handling or storing materials potentially infectious for polioviruses*, available here.

[1] The year of tOPV introduction is generally not known. For this reason, the table assumes that materials collected between the listed last WPV2 case and three months after the last use of tOPV, excluding periods with VDPVs, would fall under the category of OPV2/Sabin2 PIMs.

[2] In countries and territories where only the year is known, the month of last tOPV use was arbitrarily set as December.

No.	Country or area	1. WPV PIM dates			2. OPV2/Sabin2 PIM dates (Must mitigate now)
		WPV1/cVDPV1	WPV2/cVDPV2 (Must contain now)	WPV3/cVDPV3	
1.	**Afghanistan**[1]	**Endemic** (1)	• Until Nov 1997 (2, 3) • *Jun 2010 – Mar 2013*[2] (1)	Until Apr 2010 (1)	• Dec 1997 – May 2010 • Apr 2013 – Jul 2016
2.	Albania[1]	Until Nov 1996 (4)	Until Dec 1985 (5)	Until Dec 1978 (5)	Jan 1986 – Jul 2016
3.	Algeria[1]	Until Dec 1996[3] (6)	Until Dec 1985 (7)	Until Dec 1996[3] (6)	Jan 1986 – Jul 2016
American Samoa: see under the United States of America					
4.	Andorra[4]	Until Dec 1959[3] (8)	Until Dec 1959[3] (8)	Until Dec 1959[3] (8)	• Jan 1960 – Dec 1960[5] • Jan 1961 – Mar 2005
5.	Angola[1]	• Until Sep 2001 (1) • Apr 2005 – Jul 2011 (1)	Until Dec 1982 (9)	• Until May 1999 (10) • Mar 2008 – Nov 2008 (1)	Jan 1983 – Jul 2016
Anguilla: see under the United Kingdom of Great Britain and Northern Ireland					
6.	Antigua and Barbuda[1]	Until Dec 1965 (11)	Until Dec 1964 (11)	Until Dec 1965 (11)	Jan 1965 – Jul 2016
7.	Argentina[1]	Until Dec 1984 (11)	Until Dec 1982 (11)	Until Dec 1973 (11)	Jan 1983 – Jul 2016
8.	Armenia[1]	Until Jun 1995 (5, 8)	Until Jun 1995 (5, 8)	Until Jul 1991 (5)	Jul 1995 – Jul 2016
9.	Australia[6]	Until Dec 1972 (12)	Until Dec 1972 (12)	Until Dec 1972 (12)	Jan 1973 – Jun 2006
10.	Austria[7]	Until Dec 1980[3] (8)	Until Dec 1980[3] (8)	Until Dec 1980[3] (8)	Jan 1981 – Dec 2001
11.	Azerbaijan[8]	Until Oct 1995 (5, 8)	Until Dec 1995[3] (8)	Until Dec 1995[3] (8)	Jan 1996 – Aug 2017
12.	Bahamas[1]	Until Dec 1978 (11)	Until Dec 1977 (11)	Until Dec 1978 (11)	Jan 1978 – Jul 2016
13.	Bahrain[1]	Until Dec 1993 (13)	Until Dec 1980[3] (14)	Until Dec 1977 (3)	Jan 1981 – Jul 2016
14.	Bangladesh[1]	• Until Dec 2000 (15) • Jan 2006 – Dec 2006 (1, 16)	Until Dec 1999[9] (17)	Until Oct 2010[10] (17)	Jan 2000 – Jul 2016
15.	Barbados[1]	Until Dec 1966 (11)	Until Dec 1967 (11)	Until Dec 1966 (11)	Jan 1968 – Jul 2016
16.	Belarus[1]	Until Dec 1964[3] (8)	Until Dec 1964[3] (8)	Until Dec 1964[3] (8)	Jan 1965 – Jul 2016
17.	Belgium[11]	Until Dec 1979[3] (8)	Until Dec 1979[3] (8)	Until Dec 1979[3] (8)	Jan 1980 – Mar 2004
18.	Belize[1]	Until Dec 1981 (11)	Until Dec 1980 (11)	Until Dec 1981 (11)	Jan 1981 – Jul 2016

[1] Last use of tOPV: Apr 2016
[2] Circulating vaccine-derived poliovirus outbreak
[3] Last clinically confirmed polio case, poliovirus type unknown
[4] Estimated last use of tOPV: Dec 2004
[5] These dates predate OPV2 use but enhanced mitigations are recommended to minimize poliovirus risk
[6] Estimated last use of tOPV: Mar 2006
[7] Estimated last use of tOPV: Dec 2001
[8] Use of tOPV continued post-switch until May 2017
[9] Year of last WPV2 case in South-East Asia Region
[10] Year of last WPV3 case in South-East Asia Region
[11] Estimated last use of tOPV: Dec 2003

No.	Country or area	1. WPV PIM dates			2. OPV2/Sabin2 PIM dates (Must mitigate now)
		WPV1/cVDPV1	WPV2/cVDPV2 (Must contain now)	WPV3/cVDPV3	
19.	Benin[1]	• Until Dec 2000[2] (15) • Nov 2003 – Jun 2004 (1) • Apr 2008 – Apr 2009 (1)	Until Dec 1997 (7)	• Until Dec 2000[2] (15) • Jun 2008 – Dec 2008 (1)	Jan 1998 – Jul 2016
Bermuda: see under the United Kingdom of Great Britain and Northern Ireland					
20.	Bhutan[1]	Until Dec 1986[2] (18)	Until Dec 1986[2] (18)	Until Dec 1986[2] (18)	Jan 1987 – Jul 2016
21.	Bolivia (Plurinational State of)[1]	Until Dec 1989 (11)	Until Dec 1985 (11)	Until Dec 1988 (11)	Jan 1986 – Jul 2016
22.	Bosnia and Herzegovina[1]	Until Dec 1974[2] (8)	Until Dec 1974[2] (8)	Until Dec 1974[2] (8)	Jan 1975 – Jul 2016
23.	Botswana[1]	Until Dec 1989[2] (19)	Until Dec 1989[2] (19)	Until Dec 1989[2] (19)	Jan 1990 – Jul 2016
24.	Brazil[1]	• Until Dec 1989 (11) • Mar 2014[3]	• Until Dec 1985 (11) • *Jan 2014*[4] (20)	Until Dec 1988 (11)	• Jan 1986 – Dec 2013 • Feb 2014 – Jul 2016
British Virgin Islands: see under the United Kingdom of Great Britain and Northern Ireland					
25.	Brunei Darussalam[5]	Until Dec 1978[2] (21)	Until Dec 1978[2] (21)	Until Dec 1978[2] (21)	Jan 1979 – Dec 2012
26.	Bulgaria[6]	• Until May 1991 (5, 8) • Mar 2001 – May 2001 (22)	Until Mar 1991[2] (5, 8)	Until Mar 1991[2] (5, 8)	Apr 1991 – Sep 2007
27.	Burkina Faso[1]	• Until Dec 1984[2] (9) • Sep 2002 – Sep 2004 (1) • Jun 2008 – Oct 2009 (1)	Until Dec 1984[2] (9)	Until Dec 1984[2] (9)	Jan 1985 – Jul 2016
Burma: see Myanmar					
28.	Burundi[1]	• Until Dec 1984[2] (9) • Sep2009 (1)	Until Dec 1984[2] (9)	Until Dec 1984[2] (9)	Jan 1985 – Jul 2016
29.	Cabo Verde[1]	• Until Dec 1984[2] (9) • Aug 2000 – Oct 2000 (23)	Until Dec 1984[2] (9)	Until Dec 1984[2] (9)	Jan 1985 – Jul 2016
30.	Cambodia[1]	Until Mar 1997 (24)	Until Dec 1989 (12)	Until Dec 1993[7]	Jan 1990 – Jul 2016
31.	Cameroon[8]	• Until Dec 1999 (25) • Oct 2013 – Jul 2014 (1)	• Until Dec 1984[2] (9) • *May 2013 – Aug 2013*[4] (1)	• Until Dec 1984[2] (9) • Jul 2009 – Oct 2009 (1)	• Jan 1985 – Apr 2013 • Sep 2013 – Jul 2016 • Aug 2016 – Nov 2016[9] • Dec 2016 – Apr 2017

[1] Last use of tOPV: Apr 2016
[2] Last clinically confirmed polio case, poliovirus type unknown
[3] https://centerforvaccineethicsandpolicy.net/2014/06/
[4] Circulating vaccine-derived poliovirus outbreak
[5] Estimated last use of tOPV: Dec 2014
[6] Estimated last use of tOPV: Jun 2007
[7] Last WPV3 case in Western Pacific Region
[8] Estimated last use of tOPV: Apr 2016; mOPV2 use Dec 2016 – Jan 2017
[9] These dates predate mOPV2 use but enhanced mitigations are recommended to minimize poliovirus risk

No.	Country or area	1. WPV PIM dates			2. OPV2/Sabin2 PIM dates (Must mitigate now)
		WPV1/cVDPV1	WPV2/cVDPV2 (Must contain now)	WPV3/cVDPV3	
		• Oct 2003 – Dec 2006 (1)			
32.	Canada[1]	• Until Dec 1977 (11) • Jul 1978 – Aug 1978 (26)	Until Dec 1964 (11)	• Until Dec 1964 (11) • Jan 1993 – Jun 1993 (27)	Jan 1965 – Mar 1997
Cayman Islands: see under the United Kingdom of Great Britain and Northern Ireland					
33.	Central African Republic[2]	• Until Jul 2000 (15) • Dec 2003 – Nov 2004 (1) • Apr 2008 – Dec 2008 (1) • Sep 2011 – Dec 2011 (1)	Until Dec 1996 (7)	• Until Dec 1984[3] (9) • Apr – Aug 2009 (1)	Jan 1997 – Jul 2016
34.	Chad[4]	• Until Dec 2000 (15) • Aug 2003 – Dec 2005 (1) • May 2007 – Nov 2008 (1) • Sep 2010 – Jun 2012 (1)	• Until Dec 1983[3] (9) • *Jul 2012 – May 2013*[5] (1)	• Until Dec 1999 (25) • Oct 2004 – Nov 2004 (1) • Nov 2006 – Mar 2011 (1)	• Jan 1984 – Jun 2012 • Jun 2013 – Jul 2016 • Aug 2016 – Nov 2016[6] • Dec 2016 – Apr 2017
35.	Chile[1]	Until Dec 1975 (11)	Until Dec 1970 (11)	Until Dec 1974 (11)	Jan 1971 – Jul 2016
36.	China[1]	• Until Sep 1994 (12, 28) • Jul 2011 – Oct 2011 (29)	• Until Dec 1985 (30) • *Jan 2012 – Feb 2012*[5] (1)	Until Dec 1993[7]	• Jan 1986 – Dec 2011 • Mar 2012 – Jul 2016
37.	China, Hong Kong SAR[8]	Until Dec 1981[3] (12)	Until Dec 1983 (12)	Until Dec 1981[3] (12)	Jan 1984 – Nov 2008
38.	China, Macao SAR[9]	Until Dec 1975[3] (12)	Until Dec 1975[3] (12)	Until Dec 1975[3] (12)	Jan 1976 – Dec 2009
39.	Taiwan, China[1]	Until Dec 1982[3] (31)	Until Dec 1982[3] (31)	Until Dec 1982[3] (31)	Jan 1983 – Jul 2016
40.	Colombia[1]	Until Jul 1991 (11)	Until Dec 1982 (11)	Until Dec 1989 (11)	Jan 1983 – Jul 2016
41.	Comoros[1]	Until Dec 1980[3] (9)	Until Dec 1980[3] (9)	Until Dec 1980[3] (9)	Jan 1981 – Jul 2016
42.	Congo[1]	• Until Dec 2000 (15) • Sep 2010 – Jan 2011 (1)	Until Dec 1984[3] (9)	Until Dec 1984[3] (9)	Jan 1985 – Jul 2016
43.	Cook Islands[1]	Until Dec 1959[3] (12)	Until Dec 1959[3] (12)	Until Dec 1959[3] (12)	• Jan 1960 – Dec 1960[6] • Jan 1961– Jul 2016

[1] Estimated last use of tOPV: Dec 1996
[2] Last use of tOPV: Apr 2016
[3] Last clinically confirmed polio case, poliovirus type unknown
[4] Estimated last use of tOPV: Apr 2016; mOPV2 use Dec 2016 – Jan 2017
[5] Circulating vaccine-derived poliovirus outbreak
[6] These dates predate mOPV2 use but enhanced mitigations are recommended to minimize poliovirus risk
[7] Last WPV3 case in Western Pacific Region
[8] Estimated last use of tOPV: Aug 2008
[9] Estimated last use of tOPV: Sep 2009

No.	Country or area	1. WPV PIM dates			2. OPV2/Sabin2 PIM dates (Must mitigate now)
		WPV1/cVDPV1	WPV2/cVDPV2 (Must contain now)	WPV3/cVDPV3	
44.	Costa Rica[1]	Until Dec 1973 (11)	Until Dec 1985 (11)	Until Dec 1985 (11)	Jan 1986 – Nov 2011
45.	Côte d'Ivoire[2]	• Until Dec 2000 (15) • Dec 2003 – Oct 2004 (1) • Dec 2008 –Aug 2009 (1)	Until Dec 1997 (7)	• Until Dec 1999 (25) • Jan 2011 –Jul 2011 (1)	Jan 1998 – Jul 2016
46.	Croatia[3]	Until Jun 1990 (5)	Until Jun 1989 (5)	Until Dec 1981 (5)	Jul 1989 – Mar 2008
47.	Cuba[2]	Until May 1962 (11)	Until Dec 1961 (11)	Until Dec 1961 (11)	Jan 1962 – Jul 2016
48.	Cyprus[3]	Until Jul 1995 (5)	Until Dec 1995 (5)	Until Dec 1995 (5)	Jan 1996 – Mar 2008
49.	Czechia[4]	Until Dec 1960[5] (8)	Until Dec 1960[5] (8)	Until Dec 1964[5] (8)	Jan 1961 – Apr 2007
50.	Democratic People's Republic of Korea[2]	Until Dec 1996[5] (17)	Until Dec 1996[5] (17)	Until Dec 1996[5] (17)	Jan 1997 – Jul 2016
51.	**Democratic Republic of the Congo**[6, 7]	• Until December 2000[5] (32) • Jan 2005 – Aug 2008 (1, 33) • May 2010 – Dec 2011 (1)	• Until Dec 2000[5] (32) • *Feb 2010 – Sep 2010*[8] (1) • *Oct 2011 – Apr 2012*[8] (1) • ***Feb 2017 – ongoing***[8] (1)	• Until Dec 2000[5] (32) • Oct 2008 – Jun 2009 (1)	• Jan 2001 – Jan 2010 • Oct 2010 – Sep 2011 • May 2012 – Jan 2017
52.	Denmark[9]	Until Dec 1976 (8)	Until Dec 1967 (5)	Until Dec 1967 (5)	Jan 1968 – Oct 2003
53.	Djibouti[2]	Until Dec 1995 (3)	Until Dec 1979[5] (14)	Until Dec 1979[5] (14)	Jan 1980 – Jul 2016
54.	Dominica[2]	Until Dec 1980 (11)	Until Dec 1980 (11)	Until Dec 1980 (11)	Jan 1981 – Jul 2016
55.	Dominican Republic[2]	• Until Dec 1985 (11) • *Jul 2000 – Jan 2001*[8] (34)	Until Dec 1985 (11)	Until Dec 1985 (11)	Jan 1986 – Jul 2016
56.	Ecuador[2]	Until Dec 1990 (11)	Until Dec 1987 (11)	Until Dec 1990 (11)	Jan 1988 – Jul 2016
57.	Egypt[10]	Until May 2004 (3)	Until Dec 1994 (3)	Until Dec 2000 (3)	Jan 1995 – Aug 2016
58.	El Salvador[2]	Until Dec 1989 (11)	Until Dec 1987 (11)	Until Dec 1989 (11)	Jan 1988 – Jul 2016

[1] Estimated last use of tOPV: Aug 2011
[2] Last use of tOPV: Apr 2016
[3] Estimated last use of tOPV: Dec 2007
[4] Estimated last use of tOPV: Jan 2007
[5] Last clinically confirmed polio case, poliovirus type unknown
[6] tOPV use continued post-switch until Jun 2017; mOPV2 use began Jun 2017 and is ongoing
[7] The inventory of remaining infectious and poliovirus potentially infectious materials (cVDPV, mOPV2/Sabin2) for destruction or containment will have to be repeated after the present outbreak is declared closed.
[8] Circulating vaccine-derived poliovirus outbreak
[9] Estimated last use of tOPV: Jul 2003
[10] Estimated last use of tOPV: May 2016

No.	Country or area	1. WPV PIM dates			2. OPV2/Sabin2 PIM dates (Must mitigate now)
		WPV1/cVDPV1	WPV2/cVDPV2 (Must contain now)	WPV3/cVDPV3	
59.	Equatorial Guinea[1]	• Until Dec 1979[2] (9) • Jan 2014 – May 2014 (1)	Until Dec 1979[2] (9)	Until Dec 1979[2] (9)	Jan 1980 – Jul 2016
60.	Eritrea[1]	Until Dec 1995[2] (35)	Until Dec 1995[2] (35)	Until Dec 1995[2] (35)	Jan 1996 – Jul 2016
61.	Estonia[3]	Until Dec 1961[2] (8)	Until Dec 1961[2] (8)	Until Dec 1961[2] (8)	Jan 1962 – Mar 2008
62.	Eswatini[1]	Until Dec 1989[2] (36)	Until Dec 1989[2] (36)	Until Dec 1989[2] (36)	Jan 1990 – Jul 2016
63.	Ethiopia[4]	• Until Jan 2001 (15) • Dec 2004 – Nov 2006 (1) • Mar 2008 – Apr 2008 (1) • Jul 2013 – Jan 2014 (1)	Until Dec 1984[2] (9)	• Until Dec 1984[2] (9) • *Jan 2010 – May 2010*[5] (1)	• Jan 1985 – Jul 2016 • **Jul 2018 – ongoing**
64.	Fiji[1]	Until Dec 1958[2] (12)	Until Dec 1958[2] (12)	Until Dec 1958[2] (12)	Jan 1959 – Dec 1960[6] Jan 1961 – Jul 2016
65.	Finland[7]	Until Dec 1964 (37)	Until Dec 1960 (5)	• Until Dec 1964 (37) • Aug 1984 – Jan 1985 (37)	Jan 1961 – Mar 1986
66.	France[8]	Until Jun 1989 (5, 8)	Until Dec 1984 (5)	Until Jan 1989 (5, 8)	Jan 1985 – Aug 1999
67.	French Guiana[9]	Until Dec 1983[2] (9)	Until Dec 1983[2] (9)	Until Dec 1983[2] (9)	Jan 1984 – Mar 1991
68.	French Polynesia[10]	Until Dec 1982[2] (12)	Until Dec 1982[2] (12)	Until Dec 1982[2] (12)	Jan 1983 – Dec 2005
69.	Guadeloupe[1]	Until Dec 1970[2] (14)	Until Dec 1970[2] (14)	Until Dec 1970[2] (14)	Jan 1971 – Jul 2016
70.	Martinique[9]	Until Dec 1975[2] (38)	Until Dec 1975[2] (38)	Until Dec 1975[2] (38)	Jan 1976 – Mar 1991
71.	New Caledonia[11]	Until Dec 1982[2] (12)	Until Dec 1982[2] (12)	Until Dec 1982[2] (12)	Jan 1983 – Dec 1994
72.	La Réunion[9]	Until Dec 1979[2] (14)	Until Dec 1979[2] (14)	Until Dec 1979[2] (14)	Jan 1980 – Mar 1991
73.	Wallis and Futuna[12]	Until Dec 1972[2] (12)	Until Dec 1972[2] (12)	Until Dec 1972[2] (12)	Jan 1973 – Dec 2005
French Guiana and French Polynesia: see under France					
74.	Gabon[1]	Until Dec 1984[2] (9)	Until Dec 1984[2] (9)	Until Dec 1984[2] (9)	Jan 1985 – Jul 2016

[1] Last use of tOPV: Apr 2016
[2] Last clinically confirmed polio case, poliovirus type unknown
[3] Estimated last use of tOPV: Dec 2007
[4] Last use of tOPV: Apr 2016; mOPV2 use began Jul 2018 and is ongoing
[5] Circulating vaccine-derived poliovirus outbreak
[6] These dates predate OPV2 use but enhanced mitigations are recommended to minimize poliovirus risk
[7] Estimated last use of tOPV: Dec 1985
[8] Estimated last use of tOPV: Jun 1999
[9] Estimated last use of tOPV: Dec 1990
[10] Estimated last use of tOPV: Sep 2005
[11] Estimated last use of tOPV: Oct 1994
[12] Estimated last use of tOPV: Sep 2005

No.	Country or area	1. WPV PIM dates			2. OPV2/Sabin2 PIM dates (Must mitigate now)
		WPV1/cVDPV1	WPV2/cVDPV2 (Must contain now)	WPV3/cVDPV3	
75.	Gambia[1]	Until Dec 1997 (39)	Until Dec 1980[2] (9)	Until Dec 1980[2] (9)	Jan 1981 – Jul 2016
76.	Georgia[1]	Until Sep 1991 (5, 40)	Until Jan 1987 (5)	Until Nov 1990 (5)	Feb 1987 – Jul 2016
77.	Germany[3]	Until May 1990 (5)	Until Dec 1989 (5)	Until Dec 1989 (5)	Jan 1990 – Mar 1998
78.	Ghana[1]	• Until Dec 2000 (25) • Feb 2003 – Sep 2003 (1) • Sep 2008 –Nov 2008 (1)	Until Dec 1984[2] (9)	Until Dec 1984[2] (9)	Jan 1985 – Jul 2016
79.	Greece[4]	Until Sep 1996[2] (41)	Until Dec 1996[2] (8)	Until Dec 1996[2] (8)	Jan 1997 – Mar 2005
80.	Grenada[1]	Until Dec 1955[2] (11)	Until Dec 1955[2] (11)	Until Dec 1955[2] (11)	• Jan 1956 – Dec 1960[5] • Jan 1961 – Jul 2016
Guadeloupe: see under France *Guam: see under the United States of America*					
81.	Guatemala[1]	Until Dec 1987[2] (11)	Until Dec 1987[2] (11)	Until Dec 1990 (11)	Jan 1988 – Jul 2016
82.	Guinea[1]	• Until Dec 1999 (25) • Jun 2004 – Dec 2004 (1) • Apr 2009 – Nov 2009 (1)	• Until Dec 1984[2] (9) • *Aug 2014 – Dec 2015*[6] (1)	• Until Dec 1984[2] (9) • May 2011 – Aug 2011 (1)	• Jan 1985 – Jul 2014 • Jan 2016 – Jul 2016
83.	Guinea-Bissau[1]	Until Dec 1999 (42)	Until Dec 1982[2] (9)	Until Dec 1982[2] (9)	Jan 1983 – Jul 2016
84.	Guyana[1]	Until Dec 1975[2] (14)	Until Dec 1975[2] (14)	Until Dec 1975[2] (14)	Jan 1976 – Jul 2016
85.	Haiti[1]	• Until Dec 1989 (11) • *Aug 2000 – Jul 2001*[6] (34)	Until Dec 1989 (11)	Until Dec 1989 (11)	Jan 1990 – Jul 2016
86.	Honduras[1]	Until Dec 1990 (11)	Until Dec 1988 (11)	Until Dec 1989 (11)	Jan 1989 – Jul 2016
Hong Kong, SAR China: see under China					
87.	Hungary[7]	Until Mar 1969 (5, 8)	Until Dec 1959[2] (5)	Until Dec 1959[2] (5)	• Jan 1960 – Dec 1960[5] • Jan 1961 – Mar 2007
88.	Iceland	Until Dec 1960[2] (8)	Until Dec 1960[2] (8)	Until Dec 1960[2] (8)	Never used
89.	India[8]	• Until Jan 2011 (1)	• Until Dec 1999 (16) • *Jun 2009 – Jan 2010*[6] (1)	Until Oct 2010 (1)	• Jan 2000 – May 2008 • Feb 2010 – **ongoing**

[1] Last use of tOPV: Apr 2016
[2] Last clinically confirmed polio case, poliovirus type unknown
[3] Estimated last use of tOPV: Dec 1997
[4] Estimated last use of tOPV: Dec 2004
[5] These dates predate OPV2 use but enhanced mitigations are recommended to minimize poliovirus risk
[6] Circulating vaccine-derived poliovirus outbreak
[7] Estimated last use of tOPV Dec 2006
[8] Use of tOPV continued post-switch until Dec 2016; OPV2 contamination of bOPV discovered October 2018

No.	Country or area	1. WPV PIM dates			2. OPV2/Sabin2 PIM dates (Must mitigate now)
		WPV1/cVDPV1	WPV2/cVDPV2 (Must contain now)	WPV3/cVDPV3	
90.	Indonesia[1]	• Until Dec 1995[2] (17) • Jan 2004 – Dec 2006 (1, 16, 33)	Until Dec 1995[2] (17)	Until Dec 1995[2] (17)	Jan 1996 – Jul 2016
91.	Iran[1] (Islamic Republic of)	• Until Dec 1997 (3) • Jan 2000 – Dec 2000 (43)	Until Jun 1994 (3)	Until May 1998 (3)	Jul 1994 – Jul 2016
92.	Iraq[1]	• Until Jan 2000 (44) • Feb 2014 – Apr 2014 (1)	Until Dec 1995 (3)	Until Dec 1995 (3)	Jan 1996 – Jul 2016
93.	Ireland[3]	Until Dec 1982[2] (8)	Until Dec 1982[2] (8)	Until Dec 1982[2] (8)	Jan 1983 – Sep 2001
94.	Israel[4]	• Until Oct 1988 (5) • May 2013 – Apr 2014 (5)	Until Dec 1978 (5)	Until Aug 1986 (5)	Jan 1979 – Mar 2004
95.	Italy[5]	Until Mar 1982 (5, 8)	Until Mar 1980 (5)	Until May 1976 (5)	Jan 1981 – Mar 2003
Ivory Coast: see Côte d'Ivoire					
96.	Jamaica[1]	Until Dec 1982 (11)	Until Dec 1982 (11)	Until Dec 1982 (11)	Jan 1984 – Jul 2016
97.	Japan[6]	Until Dec 1980 (12)	Until Dec 1962 (12)	Until Dec 1993 (12)	Jan 1963 – Dec 2012
98.	Jordan[1]	Until Dec 1992 (3)	Until Dec 1990 (3)	Until Dec 1990 (3)	Jan 1991 – Jul 2016
99.	Kazakhstan[1]	Until Dec 1995[2] (45)	Until Dec 1995[2] (45)	Until Dec 1995[2] (45)	Jan 1996 – Jul 2016
100.	**Kenya**[7,8]	• Until Dec 1995[2] (35) • Aug 2006 – Nov 2006 (1) • Feb 2009 – Jul 2009 (1) • Apr 2013 – Jul 2013 (1)	• Until Dec 1995[2] (35) • *May 2012 – Aug 2012*[9] (1) • ***Mar 2018 – ongoing***[9] (1)	Until Dec 1995[2] (35)	• Jan 1996 – Apr 2012 • Sep 2012 – July 2016
101.	Kiribati[1]	Until Dec 1997[10]	Until Dec 1991[11]	Until Dec 1993[12]	Jan 1992 – Jul 2016
Korea: see Democratic People's Republic of Korea, and Republic of Korea					
102.	Kuwait[1]	Until Dec 1983 (46)	Until Dec 1983 (46)	Until Dec 1983 (46)	Jan 1984 – Jul 2016
103.	Kyrgyzstan[1]	Until Jun 1992 (5, 8)	Until Jun 1992 (5, 8)	Until Dec 1993 (5, 8)	Jul 1992 – Jul 2016

[1] Last use of tOPV: Apr 2016
[2] Last clinically confirmed polio case, poliovirus type unknown
[3] Estimated last use of tOPV: Jun 2001
[4] Estimated last use of tOPV: Dec 2003
[5] Estimated last use of tOPV: Dec 2002
[6] Estimated last use of tOPV: Sep 2012
[7] Last use of tOPV: Apr 2016; preventive mOPV2 use began May 2018 and is ongoing
[8] The inventory of remaining infectious and poliovirus potentially infectious materials (cVDPV, mOPV2/Sabin2) for destruction or containment will have to be repeated after the present outbreak is declared closed.
[9] Circulating vaccine-derived poliovirus outbreak
[10] Last WPV1 case in Western Pacific Region
[11] Last WPV2 case in Western Pacific Region
[12] Last WPV3 case in Western Pacific Region

No.	Country or area	1. WPV PIM dates			2. OPV2/Sabin2 PIM dates (Must mitigate now)
		WPV1/cVDPV1	WPV2/cVDPV2 (Must contain now)	WPV3/cVDPV3	
104.	Lao People's Democratic Republic[1]	• Until Dec 1996 (12) • *Sep 2015 – Jan 2016*[2] (1)	Until Dec 1993 (12)	Until Dec 1992 (12)	Jan 1994 – Jul 2016
105.	Latvia[3]	Until Dec 1962[4] (8)	Until Dec 1962[4] (8)	Until Dec 1962[4] (8)	Jan 1963 – Mar 2007
106.	Lebanon[1]	Until Jun 1994[4] (3, 47)	Until Dec 1994[4] (47)	Until Jun 1994[4] (47)	Jan 1995 – Jul 2016
107.	Lesotho[1]	Until Dec 1998[4] (48)	Until Dec 1998[4] (48)	Until Dec 1998[4] (48)	Jan 1999 – Jul 2016
108.	Liberia[1]	• Until Dec 1999[4] (25) • Apr 2009 – Sep 2010 (1)	Until Dec 1999[4] (25)	Until Dec 1999[4] (25)	Jan 2000 – Jul 2016
109.	Libya[1]	Until Dec 1983[4] (49)	Until Dec 1983[4] (49)	Until Dec 1983[4] (49)	Jan 1984 – Jul 2016
110.	Lithuania[5]	Until Dec 1972[4] (8)	Until Dec 1972[4] (8)	Until Dec 1972[4] (8)	Jan 1973 – Feb 2007
111.	Luxembourg[6]	Until Dec 1963[4] (8)	Until Dec 1963[4] (8)	Until Dec 1963[4] (8)	Jan 1964 – Mar 1999
Macao, SAR China: see under China *Macedonia: see the former Yugoslav Republic of Macedonia*					
112.	Madagascar[1]	• Until Dec 1997 (50) • *Sep 2014*[2] (1) • *Apr 2015 – Aug 2015*[2] (1)	• Until Dec 1995 (19) • *Oct 2001 – Apr 2002*[2] (51) • *Jun 2005 – Sep 2005*[2] (52)	• Until Dec 1995 (19) • *Apr 2005 – May 2005*[2] (52)	Jan 1996 – Jul 2016
113.	Malawi[1]	Until Dec 1991[4] (19)	Until Dec 1991[4] (19)	Until Dec 1991[4] (19)	Jan 1992 – Jul 2016
114.	Malaysia[7]	• Until Dec 1986 (53) • Apr 1992 (54)	Until Dec 1986[4] (53)	Until Dec 1986[4] (53)	Jan 1987 – Mar 2016
115.	Maldives[1]	Until Dec 1981 (9, 16)	Until Dec 1981 (9, 16)	Until Dec 1981 (9, 16)	Jan 1982 – Jul 2016
116.	Mali[1]	• Until Jan 1999 (55) • Apr 2004 – May 2005 (1) • Aug 2008 – May 2010 (1)	Until Jan 1998[8]	• Until Jan 1999 (55) • Sep 2010 – Jun 2011 (1)	Feb 1998 – Jul 2016
117.	Malta[9]	Until Dec 1964[4] (8, 56)	Until Dec 1964[4] (8, 56)	Until Dec 1964[4] (8, 56)	Jan 1965 – Dec 2010
118.	Marshall Islands[9]	Until Dec 1976[4] (12)	Until Dec 1976[4] (12)	Until Dec 1976[4] (12)	Jan 1977 – Dec 2010
Martinique: see under France					
119.	Mauritania[1]	• Until Dec 1999[4] (57)	Until Dec 1999[4] (57)	Until Dec 1999[4] (57)	Jan 2000 – Jul 2016

[1] Last use of tOPV: Apr 2016
[2] Circulating vaccine-derived poliovirus outbreak
[3] Estimated last use of tOPV Dec 2006
[4] Last clinically confirmed polio case, poliovirus type unknown
[5] Estimated last use of tOPV: Nov 2006
[6] Estimated last use of tOPV: Dec 1998
[7] Estimated last use of tOPV: Dec 2015
[8] Last WPV2 case in Africa Region
[9] Estimated last use of tOPV: Sep 2010

No.	Country or area	1. WPV PIM dates			2. OPV2/Sabin2 PIM dates (Must mitigate now)
		WPV1/cVDPV1	WPV2/cVDPV2 (Must contain now)	WPV3/cVDPV3	
		• Oct 2009 – Apr 2010 (1)			
120.	Mauritius[1]	Until Dec 1970[2] (14)	Until Dec 1970[2] (14)	Until Dec 1970[2] (14)	Jan 1971 – Jul 2016
121.	Mexico[3]	• Until Dec 1987 (11)	• Until Dec 1987 (11) • May 2010 (11)	Until Dec 1990 (58)	• Jan 1988 – Mar 2007 • Feb 2016 – May 2016
122.	Micronesia[4] (Federated States of)	Until Dec 1979[2] (12)	Until Dec 1979[2] (12)	Until Dec 1979[2] (12)	Jan 1980 – Dec 2013
Moldova: See Republic of Moldova					
123.	Monaco[5]	Until Dec 1964[2] (8)	Until Dec 1964[2] (8)	Until Dec 1964[2] (8)	Jan 1965 – Aug 1999
124.	Mongolia[1]	Until Dec 1993[2] (12)	Until Dec 1993[2] (12)	Until Dec 1993[2] (12)	Jan 1994 – Jul 2016
125.	Montenegro[6]	Until Oct 1996[2] (5, 8)	Until Oct 1996[2] (5, 8)	Until Oct 1996[2] (5, 8)	Nov 1996 – Mar 2016
Montserrat: see under the United Kingdom of Great Britain and Northern Ireland					
126.	Morocco[1]	Until Nov 1989 (3)	Until Dec 1979[2] (14)	Until Dec 1979[2] (14)	Jan 1980 – Jul 2016
127.	Mozambique[7]	• Until Dec 1993[2] (19) • *Feb 2011 – Jun 2011*[8] (1)	Until Dec 1993[2] (19)	Until Dec 1993[2] (19)	Jan 1994 – Aug 2017
128.	Myanmar[1]	• Until Dec 2000[2] (59) • Jan 2007 – Dec 2007 (1, 16)	• Until Dec 1999[9](17) • *Jan 2015 – Dec 2015*[8] (1, 16)	Until Dec 2000[2] (59)	• Jan 2000 – Dec 2014 • Jan 2016 – Jul 2016
129.	Namibia[1]	• Until Dec 1995[2] (19) • May 2006 – Jun 2006 (1)	Until Dec 1995[2] (19)	Until Dec 1995[2] (19)	Jan 1996 – Jul 2016
130.	Nauru[1]	Until Dec 1939[2] (12)	Until Dec 1939[2] (12)	Until Dec 1939[2] (12)	• Jan 1940 – Dec 1960[10] • Jan 1961 – Jul 2016
131.	Nepal[1]	• Until Dec 2000[2] (59) • Jan 2005 –Dec 2006 (1, 16) • Jan 2010 – Dec 2010 (1, 16)	Until Dec 1999[9]	• Until Dec 2000[2] (59) • Jan 2007 – Dec 2008 (1, 16)	Jan 2000 – Jul 2016
132.	Netherlands[11]	Until Nov 1992 (5)	Until Dec 1983 (5, 60)	Until Aug 1993 (5, 8)	Sep 1992 – May 1993

[1] Last use of tOPV: Apr 2016
[2] Last clinically confirmed polio case, poliovirus type unknown
[3] Estimated last use of tOPV: Dec 2006; SIA with tOPV in Feb 2016
[4] Estimated last use of tOPV: Sep 2013
[5] Estimated last use of tOPV: Jun 1999
[6] Estimated last use of tOPV: Dec 2015
[7] Use of tOPV continued post-switch until Jan 2017; mOPV2 used Feb 2017 – May 2017
[8] Circulating vaccine-derived poliovirus outbreak
[9] Year of last WPV2 case in South-East Asia Region
[10] These dates predate OPV2 use but enhanced mitigations are recommended to minimize poliovirus risk
[11] tOPV only used in SIA Sep 1992 – Feb 1993

No.	Country or area	1. WPV PIM dates			2. OPV2/Sabin2 PIM dates (Must mitigate now)
		WPV1/cVDPV1	WPV2/cVDPV2 (Must contain now)	WPV3/cVDPV3	
133.	Aruba[1]	Until Dec 1981[2] (11)	Until Dec 1981[2] (11)	Until Dec 1981[2] (11)	Jan 1982 – Jul 2016
134.	Curaçao[1]	Until Dec 1981[2] (11)	Until Dec 1981[2] (11)	Until Dec 1981[2] (11)	Jan 1982 – Jul 2016
135.	Sint Maarten[1]	Until Dec 1968[2] (11)	Until Dec 1968[2] (11)	Until Dec 1968[2] (11)	Jan 1969 – Jul 2016
New Caledonia: see under France					
136.	New Zealand[3]	Until Dec 1962[2] (61)	Until Dec 1962[2] (61)	Until Dec 1962[2] (61)	Jan 1963 – May 2002
137.	Nicaragua[1]	Until Dec 1981[2] (11)	Until Dec 1981[2] (11)	Until Dec 1981[2] (11)	Jan 1982 – Jul 2016
138.	**Niger**[4, 5]	Until Nov 2012 (1)	• Until Dec 1984 (9) • ***Jul 2018 – ongoing***[6] (1)	Until Jan 2011 (1)	• Jan 1985 – Jul 2016 • Aug 2016 – Nov 2016[7] • Dec 2016 – Jun 2018
139.	**Nigeria**[5, 8]	Until Aug 2016 (1)	• Until Dec 1998 (7) • *Feb 2010 – May 2015*[6] (1) • ***Jan 2018 – ongoing***[6] (1)	Until Nov 2012 (1)	• Jan 1999 – Jan 2010 • Jun 2015 – Dec 2017
140.	Niue[9]	Until Dec 1959 (12)	Until Dec 1959 (12)	Until Dec 1959 (12)	• Jan 1960 – Dec 1960[7] • Jan 1961 – Mar 2005
Northern Mariana Islands: see under the United States of America					
141.	Norway[10]	Until Dec 1969 (8, 62)	Until Dec 1960 (5)	Until Dec 1962 (5)	Jan 1961 – Mar 1981
142.	Occupied Palestinian territory, including east Jerusalem[1]	Until Dec 1988 (3)	Until Dec 1997[11]	Until Dec 2010[12]	Jan 1998 – Jul 2016
143.	Oman[1]	Until Dec 1993 (3)	Until Dec 1997[11]	Until Oct 1991 (3)	Jan 1998 – Jul 2016
144.	**Pakistan[13]**	**Endemic** (1)	• Until Apr 1997 (3) • *Aug 2012 – Dec 2016*[6] (1)	Until Apr 2012 (3)	• Jan 1998 – Jul 2012 • Jan 2017 – Jun 2017
145.	Palau[14]	Until Dec 1949[2] (12)	Until Dec 1949[2] (12)	Until Dec 1949[2] (12)	• Jan 1950 – Dec 1960[7] • Jan 1961 – Mar 2012
146.	Panama[1]	Until Dec 1972 (11)	Until Dec 1972 (11)	Until Dec 1972 (11)	Jan 1973 – Jul 2016

[1] Last use of tOPV: Apr 2016
[2] Last clinically confirmed polio case, poliovirus type unknown
[3] Estimated last use of tOPV: Feb 2002
[4] Estimated last use of tOPV: Apr 2016; mOPV2 use began Dec 2016 and is ongoing
[5] The inventory of remaining infectious and poliovirus potentially infectious materials (cVDPV, mOPV2/Sabin2) for destruction or containment will have to be repeated after the present outbreak is declared closed.
[6] Circulating vaccine-derived poliovirus outbreak
[7] These dates predate mOPV2 use but enhanced mitigations are recommended to minimize poliovirus risk
[8] Estimated last use of tOPV: Apr 2016; mOPV2 use began May 2016 and is ongoing
[9] Last use of tOPV: Mar 2005
[10] Estimated last use of tOPV: Dec 1980
[11] Year of last WPV2 case in Eastern Mediterranean Region
[12] Year of last WPV3 case in Eastern Mediterranean Region
[13] tOPV use continued post-switch until Jan 2017; mOPV2 use Jan 2017 – Mar 2017
[14] Estimated last use of tOPV: Dec 2011

No.	Country or area	1. WPV PIM dates			2. OPV2/Sabin2 PIM dates (Must mitigate now)
		WPV1/cVDPV1	WPV2/cVDPV2 (Must contain now)	WPV3/cVDPV3	
147.	**Papua New Guinea**[1]	• Until Dec 1994[2] (12) • ***Apr 2018 – ongoing***[3] (1)	Until Dec 1994[2] (12)	Until Dec 1994[2] (12)	Jan 1995 – Jul 2016
148.	Paraguay[1]	Until Dec 1985 (11)	Until Dec 1985 (11)	Until Dec 1985 (11)	Jan 1987 – Jul 2016
149.	Peru[1]	Until Aug 1991 (11)	Until Dec 1989 (11)	Until Dec 1990 (11)	Jan 1990 – Jul 2016
150.	Philippines[1]	• Until May 1993 (12) • *Mar 2001 – Sep 2001*[3] (63)	Until Dec 1991[4]	Until Mar 1993 (12)	Jan 1992 – Jul 2016
Pitcairn Islands: see under the United Kingdom of Great Britain and Northern Ireland					
151.	Poland[1]	Until Aug 1984 (5, 8)	Until Dec 1982 (5)	Until Dec 1980 (5)	Jan 1983 – Jul 2016
152.	Portugal[5]	Until Dec 1986 (8)	Until Dec 1961 (5)	Until Dec 1972 (5)	Jan 1962 – Mar 2006
153.	Puerto Rico[1]	Until Dec 1974 (11)	Until Dec 1974 (11)	Until Dec 1974 (11)	Jan 1975 – Jul 2016
154.	Qatar[1]	Until Sep 1990 (3)	Until Dec 1997[6]	Until Dec 1980[7] (14)	Jan 1998 – Jul 2016
155.	Republic of Korea[5]	Until Dec 1983[2] (12)	Until Dec 1983[2] (12)	Until Dec 1983[2] (12)	Jan 1984 – Mar 2006
156.	Republic of Moldova[1]	Until Jun 1991 (8, 64)	Until Dec 1991 (8, 64)	Until Dec 1983 (5)	Jan 1992 – Jul 2016
Réunion Island: see under France					
157.	Romania[8]	Until Jul 1992 (5, 40)	Until Apr 1980 (5)	Until Apr 1980 (5)	May 1980 – Jul 2009
158.	Russian Federation[9]	• Until Dec 1995 (65) • Apr 2010 – Oct 2010 (5)	Until Dec 1960 (5)	Until Dec 1982 (5)	Jan 1961 – Dec 2016
159.	Rwanda[1]	Until Dec 1995[2] (35)	Until Dec 1995[2] (35)	Until Dec 1995[2] (35)	Jan 1996 – Jul 2016
Saint Helena: see under the United Kingdom of Great Britain and Northern Ireland					
160.	Saint Kitts and Nevis[1]	Until Dec 1969 (11)	Until Dec 1968 (11)	Until Dec 1968 (11)	Jan 1969 – Jul 2016
161.	Saint Lucia[1]	Until Dec 1970 (11)	Until Dec 1970 (11)	Until Dec 1970 (11)	Jan 1971 – Jul 2016
162.	Saint Vincent and the Grenadines[1]	Until Dec 1971 (11)	Until Dec 1977 (11)	Until Dec 1971 (11)	Jan 1978 – Jul 2016

[1] Last use of tOPV: Apr 2016
[2] Last clinically confirmed polio case, poliovirus type unknown
[3] Circulating vaccine-derived poliovirus outbreak
[4] Last WPV2 case in Western Pacific Region
[5] Estimated last use of tOPV: Dec 2005
[6] Year of lastWPV2 case in Eastern Mediterranean Region
[7] Last clinically confirmed polio case, poliovirus type unknown
[8] Estimated last use of tOPV: Apr 2009
[9] Use of tOPV continued post-switch until Sep 2016

No.	Country or area	1. WPV PIM dates			2. OPV2/Sabin2 PIM dates (Must mitigate now)
		WPV1/cVDPV1	WPV2/cVDPV2 (Must contain now)	WPV3/cVDPV3	
163.	Samoa[1]	Until Dec 1989[2] (12)	Until Dec 1989[2] (12)	Until Dec 1989[2] (12)	Jan 1990 – Jul 2016
164.	San Marino[3]	Until Dec 1963[2] (8)	Until Dec 1963[2] (8)	Until Dec 1963[2] (8)	Jan 1964 – Mar 2003
165.	Sao Tome and Principe[1]	Until Dec 1983[2] (9)	Until Dec 1983[2] (9)	Until Dec 1983[2] (9)	Jan 1984 – Jul 2016
166.	Saudi Arabia[1]	Until Oct 1995 (3)	Until Apr 1993 (3)	Until Dec 1989 (66)	May 1993 – Jul 2016
167.	Senegal[1]	• Until Dec 1999[2] (42) • Jan 2010 – Apr 2010 (1)	Until Dec 1999[2] (42)	Until Dec 1999[2] (42)	Jan 2000 – Jul 2016
168.	Serbia[1]	Until Oct 1996 (5, 45)	Until Oct 1996 (5, 45)	Until Oct 1996 (5, 45)	Nov 1996 – Jul 2016
169.	Seychelles[1]	Until Dec 1965[2] (14)	Until Dec 1965[2] (14)	Until Dec 1965[2] (14)	Jan 1966 – Jul 2016
170.	Sierra Leone[1]	• Until Dec 2000[2] (15) • Jul 2009 – Feb 2010 (1)	Until Dec 2000[2] (15)	Until Dec 2000[2] (15)	Jan 2001 – Jul 2016
171.	Singapore[1]	Until May 1978 (12, 67)	Until Dec 1971 (12)	Until Dec 1973 (68)	Jan 1972 – Jul 2016
172.	Slovakia[4]	Until Feb 1960[2] (5, 8)	Until Jan 1960[2] (5, 8)	Until Mar 1960[2] (5, 8)	Jan 1961 – May 2005
173.	Slovenia[5]	Until Dec 1978[2] (8)	Until Dec 1978[2] (8)	Until Dec 1978[2] (8)	Jan 1979 – Mar 2006
174.	Solomon Islands[1]	Until Dec 1971[2] (12)	Until Dec 1971[2] (12)	Until Dec 1971[2] (12)	Jan 1972 – Jul 2016
175.	**Somalia**[6, 7]	• Until Nov 2000 (3) • Jul 2005 – Aug 2014 (1)	• Until Dec 1997[8] • *Jul 2010 – Jan 2013*[9] (1) • ***Oct 2017 – ongoing***[9] (1)	• Until Dec 1999[2] (42) • Mar 20– Oct 2002 (1) • ***May 2018 – ongoing***[9] (1)	• Jan 1999 – Jun 2010 • Feb 2013 – Jul 2016 • Aug 2016 – Sep 2017[10]
176.	South Africa[1]	Until Dec 1991[2] (69)	Until Dec 1991[2] (69)	Until Dec 1991[2] (69)	Jan 1992 – Jul 2016
177.	South Sudan[1]	• Until Apr 2001 (70) • May 2004 – Dec 2009 (71)	• Until Dec 1979[2] (14) • *Sep 2014*[9] (1)	• Until Dec 2001 (70) • May 2004 – Dec 2004 (70)	• Jan 1980 – Aug 2014 • Oct 2014 – Jul 2016
178.	Spain[11]	Until Mar 1988 (5) (8)	Until Dec 1987 (5)	Until Jul 1985 (5)	Jan 1988 – Jun 2004
179.	Sri Lanka[1]	Until Dec 1993 (72)	Until Dec 1993 (16)	Until Dec 1985 (9, 16)	Jan 1994 – Jul 2016

[1] Last use of tOPV: Apr 2016
[2] Last clinically confirmed polio case, poliovirus type unknown
[3] Estimated last use of tOPV: Dec 2002
4 Estimated last use of tOPV: Feb 2005
5 Estimated last use of tOPV: Dec 2005
6 Last use of tOPV: Apr 2016; mOPV2 use began Dec 2017 and is ongoing
7 The inventory of remaining infectious and poliovirus potentially infectious materials (cVDPV, mOPV2/Sabin2) for destruction or containment will have to be repeated after the present outbreak is declared closed.
[8] Year of last WPV2 case in Eastern Mediterranean Region
[9] Circulating vaccine-derived poliovirus outbreak
[10] These dates predate mOPV2 use but enhanced mitigations are recommended to minimize poliovirus risk
[11] Estimated last use of tOPV: Mar 2004

No.	Country or area	1. WPV PIM dates			2. OPV2/Sabin2 PIM dates (Must mitigate now)
		WPV1/cVDPV1	WPV2/cVDPV2 (Must contain now)	WPV3/cVDPV3	
180.	Sudan[1]	• Until Apr 2001 (70, 3) • May 2004 – Mar 2009 (71, 3)	Until Dec 2001[2] (15)	Until Dec 2008 (3, 71)	Jan 2002 – Nov 2016
181.	Suriname[1]	Until Dec 1982[2] (9)	Until Dec 1982[2] (9)	Until Dec 1982[2] (9)	Jan 1983 – Jul 2016
182.	Sweden	Until Dec 1962 (5)	Until Mar 1977 (5, 8)	Until Dec 1962 (5)	Never used
183.	Switzerland[3]	Until Oct 1982 (5, 8)	Until Dec 1982 (5, 8)	Until Oct 1980 (5)	Jan 1983 – Dec 2001
184.	Syrian Arab Republic[1]	• Until Dec 1998 (3) • Jul 2013 – Jan 2014 (1)	• Until Dec 1980[2] (14) • *Mar 2017 – Aug 2017*[4] (1)	Until Dec 1980[2] (14)	• Jan 1981 – Jul 2016 • Sep 2017 – Apr 2018
185.	Tajikistan[1]	• Until Dec 1997[2] (8, 64) • Feb 2010 – Jul 2010 (1)	Until Dec 1997[2] (8, 64)	Until Dec 1997[2] (8, 64)	Jan 1998 – Jul 2016
Tanzania: see United Republic of Tanzania					
186.	Thailand[1]	Until Dec 1997 (39)	Until Dec 1993 (16)	Until Dec 1995 (72)	Jan 1994 – Jul 2016
187.	The former Yugoslav Republic of Macedonia[1]	Until Dec 1987[2] (5, 8)	Until Dec 1987[2] (5, 8)	Until Dec 1987[2] (5, 8)	Jan 1988 – Jul 2016
188.	Timor-Leste[1]	Until Dec 1995[2] (17)	Until Dec 1995[2] (17)	Until Dec 1995[2] (17)	Jan 1996 – Jul 2016
189.	Togo[1]	• Until Dec 1999 (55) • Oct 2008 – Mar 2009 (1)	Until Dec 1998[2] (42)	Until Dec 1998[2] (42)	Jan 1999 – Jul 2016
190.	Tokelau[5]	Until Dec 1959[2] (12)	Until Dec 1959[2] (12)	Until Dec 1959[2] (12)	• Jan 1960 – Dec 1960[6] • Jan 1961 – Feb 2016
191.	Tonga[1]	Until Dec 1982[2] (12)	Until Dec 1982[2] (12)	Until Dec 1982[2] (12)	Jan 1983 – Jul 2016
192.	Trinidad and Tobago[1]	Until Dec 1972 (11)	Until Dec 1972 (11)	Until Dec 1972 (11)	Jan 1973 – Jul 2016
193.	Tunisia[1]	Until Apr 1994 (3)	Until Dec 1980[2] (14)	Until Dec 1994 (3)	Jan 1981 – Jul 2016
194.	Turkey[1]	Until Nov 1998 (5)	Until Dec 1996[2] (6)	Until Aug 1998 (5, 8)	Jan 1997 – Jul 2016
195.	Turkmenistan[1]	• Until Jul 1996 (8) • Jun 2010 (1)	Until Dec 1996 (5, 8)	Until Dec 1996 (5, 8)	Jan 1997 – Jul 2016
Turks and Caicos Islands: see under the United Kingdom of Great Britain and Northern Ireland					
196.	Tuvalu[5]	Until Dec 1936[2] (12)	Until Dec 1936[2] (12)	Until Dec 1936[2] (12)	• Jan 1937 - Dec 1960[6] • Jan 1961 – Feb 2016

[1] Last use of tOPV: Apr 2016
[2] Last clinically confirmed polio case, poliovirus type unknown
[3] Estimated last use of tOPV: Sep 2001
[4] Circulating vaccine-derived poliovirus outbreak
[5] Estimated last use of tOPV: Nov 2015
[6] These dates predate OPV2 use but enhanced mitigations are recommended to minimize poliovirus risk

No.	Country or area	1. WPV PIM dates			2. OPV2/Sabin2 PIM dates (Must mitigate now)
		WPV1/cVDPV1	WPV2/cVDPV2 (Must contain now)	WPV3/cVDPV3	
197.	Uganda[1]	• Until Dec 1996 (48) • Jan 2009 – Nov 2010 (1)	Until Dec 1971[2] (73)	Until Dec 1971[2] (73)	Jan 1972 – Jul 2016
198.	Ukraine[1]	• Until Dec 1996[2] (8) • *Jun 2015 – Jul 2015*[3] (1)	Until Dec 1996[2] (8)	Until Dec 1996[2] (8)	Jan 1997 – Jul 2016
199.	United Arab Emirates[1]	Until Apr 1992 (3)	Until Dec 1980[2] (14)	Until Dec 1980[2] (14)	Jan 1981 – Jul 2016
200.	United Kingdom of Great Britain and Northern Ireland[4]	Until Dec 1988 (5)	Until Dec 1977 (5)	Until Dec 1976 (5)	Jan 1978 – Dec 2004
201.	Anguilla[1]	Until Dec 1961 (11)	Until Dec 1961 (11)	Until Dec 1961 (11)	Jan 1962 – Jul 2016
202.	Bermuda[1]	Until Dec 1973 (11)	Until Dec 1973 (11)	Until Dec 1973 (11)	Jan 1974 – Jul 2016
203.	British Virgin Islands[1]	Until Dec 1973[2] (9)	Until Dec 1973[2] (9)	Until Dec 1973[2] (9)	Jan 1974 – Jul 2016
204.	Cayman Islands[1]	Until Dec 1957 (11)	Until Dec 1964 (11)	Until Dec 1965 (11)	Jan 1965 – Jul 2016
205.	Montserrat[1]	Until Dec 1976 (11)	Until Dec 1976 (11)	Until Dec 1976 (11)	Jan 1977 – Jul 2016
206.	Pitcairn Islands[1]	Until Dec 1997[5]	Until Dec 1991[6]	Until Dec 1993[7]	Jan 1992 – Jul 2016
207.	Saint Helena[1]	Until Dec 1945[2] (74)	Until Dec 1945[2] (74)	Until Dec 1945[2] (74)	• Jan 1946 – Dec 1960[8] • Jan 1961 – Jul 2016
208.	Turks and Caicos Islands[1]	Until Dec 1978 (11)	Until Dec 1978 (11)	Until Dec 1978 (11)	Jan 1979 – Jul 2016
209.	United Republic of Tanzania[1]	Until Dec 1996 (6)	Until Dec 1981[2] (14)	Until Dec 1981[2] (14)	Jan 1982 – Jul 2016
210.	United States of America[9]	• Until Dec 1971 (11) • Jan 1979 – Dec 1979 (40)	Until Dec 1965 (11)	Until Dec 1968 (11)	Jan 1966 – Mar 2000
211.	American Samoa[10]	Until Dec 1959[2] (12)	Until Dec 1959[2] (12)	Until Dec 1959[2] (12)	• Jan 1960 – Dec 1960[8] • Jan 1961 – Mar 2005
212.	Guam[11]	Until Dec 1964[2] (12)	Until Dec 1964[2] (12)	Until Dec 1964[2] (12)	Jan 1965 – Jan 2002
213.	Northern Mariana Islands[12]	Until Dec 1969[2] (12)	Until Dec 1969[2] (12)	Until Dec 1969[2] (12)	Jan 1970 – Mar 1999
214.	US Virgin Islands[1]	Until Dec 1981 (11)	Until Dec 1981 (11)	Until Dec 1981 (11)	Jan 1982 – Jul 2016

[1] Last use of tOPV: Apr 2016
[2] Last clinically confirmed polio case, poliovirus type unknown
[3] Circulating vaccine-derived poliovirus outbreak
[4] Estimated last use of tOPV: Sep 2004
[5] Last WPV1 case in Western Pacific Region
[6] Last WPV2 case in Western Pacific Region
[7] Last WPV3 case in Western Pacific Region
[8] These dates predate OPV2 use but enhanced mitigations are recommended to minimize poliovirus risk
[9] Estimated last use of tOPV: Dec 1999
[10] Estimated last use of tOPV: Dec 2004
[11] Estimated last use of tOPV: Oct 2001
[12] Estimated last use of tOPV: Dec 1998

No.	Country or area	1. WPV PIM dates			2. OPV2/Sabin2 PIM dates (Must mitigate now)
		WPV1/cVDPV1	WPV2/cVDPV2 (Must contain now)	WPV3/cVDPV3	
215.	Uruguay[1]	Until Dec 1978 (11)	Until Dec 1978 (11)	Until Dec 1978 (11)	Jan 1979 – Mar 2012
US Virgin Islands: see under the United States of America					
216.	Uzbekistan[2]	• Until Dec 1995 (8) • Apr 2010 – May 2010 (75)	Until Dec 1991 (5)	Until Dec 1993 (5)	Jan 1992 – Jul 2016
217.	Vanuatu[2]	Until Dec 1989[3] (12)	Until Dec 1989[3] (12)	Until Dec 1989[3] (12)	Jan 1990 – Jul 2016
218.	Venezuela (Bolivarian Republic of)[2]	Until Dec 1989 (11)	Until Dec 1972 (76)	Until Dec 1988 (11)	Jan 1973 – Jul 2016
219.	Viet Nam[2]	Until Jan 1997 (12)	Until Dec 1991 (12)	Until Dec 1993 (77)	Jan 1992 – Jul 2016
Virgin Islands, British: see under the United Kingdom of Great Britain and Northern Ireland; *Virgin Islands, US: see under the United States of America;* *Wallis and Futuna: see under France*					
220.	Yemen[2]	• Until Dec 1999[3] (42) • Feb 2005 – Feb 2006 (1)	• Until Dec 1997[4] • *Apr 2011 – Oct 2011*[5] (1)	• Until Dec 1999[3] (42) • *Apr 2012 – Aug 2012*[5] (1)	Jan 1998 – Jul 2016
Zaire: see Democratic Republic of the Congo					
221.	Zambia[2]	• Until Dec 1995 (35) • Dec 2001– Feb 2002 (1)	Until Dec 1983[3] (9)	Until Dec 1983[3] (9)	Jan 1983 – Jul 2016
222.	Zimbabwe[2]	Until Dec 1999 (25)	Until Dec 1989[3] (19)	Until Dec 1989[3] (19)	Jan 1990 – Jul 2016

1. Global Polio Eradication Initiative Polio Information System Surveillance Database.
2. Simpson DM, Sadr-Azodi N, Mashal T, Sabawoon W, Pardis A, Quddus A, Garrigos C, Guirguis S, Zahoor Zaidi SS, Shaukat S, Sharif S, Asghar H, Hadler SC. 2014. Polio eradication initiative in Afghanistan, 1997-2013. J Infect Dis 210 Suppl 1:S162-72.
3. World Health Organization Eastern Mediterranean Regional Office Containment Focal Point Report. (Direct Communication) August 2018.
4. Prevots DR, Ciofi degli Atti ML, Sallabanda A, Diamante E, Aylward RB, Kakariqqi E, Fiore L, Ylli A, van der Avoort H, Sutter RW, Tozzi AE, Panei P, Schinaia N, Genovese D, Oblapenko G, Greco D, Wassilak SG. 1998. Outbreak of paralytic poliomyelitis in Albania, 1996: high attack rate among adults and apparent interruption of transmission following nationwide mass vaccination. Clin Infect Dis 26:419-25.
5. World Health Organization European Regional Office Containment Focal Point Report. (Direct Communication) August 2018.
6. World Health Organization Communication. Performance of acute flaccid paralysis (AFP) surveillance and incidence of poliomyelitis, 1996-1997 (as of 9 January 1998). Wkly Epidemiol Rec: 11-14.

[1] Estimated last use of tOPV: Dec 2011
[2] Last use of tOPV: Apr 2016
[3] Last clinically confirmed polio case, poliovirus type unknown
[4] Year of last WPV2 case in Eastern Mediterranean Region
[5] Circulating vaccine-derived poliovirus outbreak

7. World Health Organization African Regional Office Containment Focal Point Report. (Direct Communication) August 2018.
8. World Health Organization Communication. 2002. Certification of Poliomyelitis Eradication, Fifteenth meeting of the European Regional Commission/Copenhagen,19-21 June 2002.
9. World Health Organization Communication. 1986. Poliomyelitis in 1984. Wkly Epidemiol Rec:229-233.
10. Valente F, Otten M, Balbina F, Van de Weerdt R, Chezzi C, Eriki P, Van-Dunnen J, Bele JM. 2000. Massive outbreak of poliomyelitis caused by type-3 wild poliovirus in Angola in 1999. Bull World Health Organ 78:339-46.
11. World Health Organization Regions of the Americas Office Containment Focal Point Report. (Direct Communication) August 2018.
12. World Health Organization Western Pacific Regional Office Containment Focal Point Report. (Direct Communication) August 2018.
13. Mulders MN, Lipskaya GY, van der Avoort HG, Koopmans MP, Kew OM, van Loon AM. 1995. Molecular epidemiology of wild poliovirus type 1 in Europe, the Middle East, and the Indian subcontinent. J Infect Dis 171:1399-405.
14. World Health Organization Communication. Poliomyelitis 1980. Wkly Epidemiol Rec:337-341.
15. World Health Organization Communication. Performance of acute flaccid paralysis (AFP) surveillance and incidence of poliomyelitis, 2000-2001. Wkly Epidemiol Rec:361-364.
16. World Health Organization South-East Asia Regional Office Containment Focal Point Report. (Direct Communication) August 2018.
17. Bahl S, Kumar R, Menabde N, Thapa A, McFarland J, Swezy V, Tangermann RH, Jafari HS, Elsner L, Wassilak SG, Kew OM, Cochi SL. 2014. Polio-free certification and lessons learned--South-East Asia region, March 2014. MMWR Morb Mortal Wkly Rep 63:941-6.
18. World Health Organization Communication. Performance of acute flaccid paralysis (AFP) surveillance and incidence of poliomyelitis, 2004-2005. (Data received in WHO headquarters as of 7 March 2006). Wkly Epidemiol Rec 81:114-5.
19. Biellik RJ. 1997. Current status of polio eradication in Southern Africa. J Infect Dis 175 Suppl 1:S20-3.
20. Cassemiro KM, Burlandy FM, Barbosa MR, Chen Q, Jorba J, Hachich EM, Sato MI, Burns CC, da Silva EE. 2016. Molecular and Phenotypic Characterization of a Highly Evolved Type 2 Vaccine-Derived Poliovirus Isolated from Seawater in Brazil, 2014. PLoS One 11:e0152251.
21. Said RMD, Pengiran Tengah DSNA. 2011. 2010 Report for Brunei Darussalam: Certification of the Eradication of Poliomyelitis. Brunei Int Med J 7:121-129.
22. Kojouharova M, Zuber PL, Gyurova S, Fiore L, Buttinelli G, Kunchev A, Vladimirova N, Korsun N, Filipova R, Boneva R, Gavrilin E, Deshpande JM, Oblapenko G, Wassilak SG. 2003. Importation and circulation of poliovirus in Bulgaria in 2001. Bull World Health Organ 81:476-81.
23. Centers for Disease Control and Prevention. 2000. Outbreak of poliomyelitis--Cape Verde, 2000. MMWR Morb Mortal Wkly Rep 49:1070.
24. Centers for Disease Control and Prevention. 2001. Certification of poliomyelitis eradication--Western Pacific Region, October 2000. MMWR Morb Mortal Wkly Rep 50:1-3.
25. World Health Organization Communication. Performance of acute flaccid paralysis (AFP) surveillance and incidence of poliomyelitis, 1999-2000 (data received in WHO Headquarters as of 1 June 2000). Wkly Epidemiol Rec 75:197-200.
26. White FM, Lacey BA, Constance PD. 1981. An outbreak of poliovirus infection in Alberta -- 1978. Can J Public Health 72:239-44.
27. Drebot MA, Mulders MN, Campbell JJ, Kew OM, Fonseca K, Strong D, Lee SH. 1997. Molecular detection of an importation of type 3 wild poliovirus into Canada from The Netherlands in 1993. Appl Environ Microbiol 63:519-23.
28. Wang K, Zhang LB, Otten MW, Jr., Zhang XL, Yasuo C, Zhang RZ, Xu T, Liu X, Liu M, Li QL, Yu JJ, Wang Z. 1997. Status of the eradication of indigenous wild poliomyelitis in the People's Republic of China. J Infect Dis 175 Suppl 1:S105-12.
29. Wang HB, Yu WZ, Wang XQ, Wushouer F, Wang JP, Wang DY, Cui FQ, Zheng JS, Wen N, Ji YX, Fan CX, Wang HL, Ning GJ, Huang GH, Yan DM, Su QR, Liu DW, Zhang GM, Reilly KH, Ning J, Fu JP, Mi SS,

Luo HM, Yang WZ. 2015. An outbreak following importation of wild poliovirus in Xinjiang Uyghur Autonomous Region, China, 2011. BMC Infect Dis 15:34.

30. Centers for Disease Control and Prevention. 1999. Progress toward the global interruption of wild poliovirus type 2 transmission, 1999. MMWR Morb Mortal Wkly Rep 48:736-8, 747.
31. Kim-Farley RJ, Rutherford G, Lichfield P, Hsu ST, Orenstein WA, Schonberger LB, Bart KJ, Lui KJ, Lin CC. 1984. Outbreak of paralytic poliomyelitis, Taiwan. Lancet 2:1322-4.
32. Centers for Disease Control and Prevention. 2001. Progress toward poliomyelitis eradication--Angola, Democratic Republic of Congo, Ethiopia, and Nigeria, January 2000-July 2001. MMWR Morb Mortal Wkly Rep 50:826-9.
33. Mach O, Tangermann RH, Wassilak SG, Singh S, Sutter RW. 2014. Outbreaks of paralytic poliomyelitis during 1996-2012: the changing epidemiology of a disease in the final stages of eradication. J Infect Dis 210 Suppl 1:S275-82.
34. Kew O, Morris-Glasgow V, Landaverde M, Burns C, Shaw J, Garib Z, Andre J, Blackman E, Freeman CJ, Jorba J, Sutter R, Tambini G, Venczel L, Pedreira C, Laender F, Shimizu H, Yoneyama T, Miyamura T, van Der Avoort H, Oberste MS, Kilpatrick D, Cochi S, Pallansch M, de Quadros C. 2002. Outbreak of poliomyelitis in Hispaniola associated with circulating type 1 vaccine-derived poliovirus. Science 296:356-9.
35. Klaucke DN, Lobanov A, Okwo-Bele JM, Barakamfitiye D. 1997. Status of polio eradication in the seven countries of the Eastern Africa Epidemiological Block. J Infect Dis 175 Suppl 1:S16-9.
36. Centers for Disease Control and Prevention. 1994. Emerging polio-free zone--southern Africa, 1990-1994. MMWR Morb Mortal Wkly Rep 43:768-71.
37. Simonen ML, Roivainen M, Iber J, Burns C, Hovi T. 2010. Outbreak of poliomyelitis in Finland in 1984-85 - Re-analysis of viral sequences using the current standard approach. Virus Res 147:91-7.
38. World Health Organization Communication. Poliomyelitis in 1977. Wkly Epidemiol Rec:321-327.
39. World Health Organization Communication. Performance of acute flaccid paralysis (AFP) surveillance and incidence of poliomyelitis, 1997-1998 (as of 11 January 1999). Wkly Epidemiol Rec:17-20.
40. Patriarca PA, Sutter RW, Oostvogel PM. 1997. Outbreaks of paralytic poliomyelitis, 1976-1995. J Infect Dis 175 Suppl 1:S165-72.
41. Kyriakopoulou Z, Kottaridi C, Dedepsidis E, Bolanaki E, Levidiotou-Stefanou S, Markoulatos P. 2006. Molecular characterization of wild-type polioviruses isolated in Greece during the 1996 outbreak in Albania. J Clin Microbiol 44:1150-2.
42. World Health Organization Communication. Performance of acute flaccid paralysis (AFP) surveillance and incidence of poliomyelitis, 1998-1999 (as of 25 November 1999). Wkly Epidemiol Rec 74:421-4.
43. Centers for Disease C, Prevention. 2001. Progress toward poliomyelitis eradication--Eastern Mediterranean Region, January 2000-September 2001. MMWR Morb Mortal Wkly Rep 50:1113-6.
44. Jasem JA, Marof K, Nawar A, Khalaf Y, Al-Hamdani F, Ali S, Kalil AC, Islam KM. 2014. An epidemiological analysis of acute flaccid paralysis and its surveillance system in Iraq, 1997-2011. BMC Infect Dis 14:448.
45. Smith J, Aylward RB, Salisbury D, Wassilak S, Oblapenko G. 1998. Certifying the elimination of poliomyelitis from Europe: advancing towards global eradication. Eur J Epidemiol 14:769-73.
46. Al-Kandari S, Zaidi SA. 1994. Control of poliomyelitis in Kuwait. Ann Saudi Med 14:94-6.
47. World Health Organization Communication. Progress toward Poliomyelitis Eradication in the Eastern Mediterranean Region of the World Health Organization.
48. Centers for Disease Control and Prevention. 1999. Progress toward poliomyelitis eradication--African Region, 1998-April 1999. MMWR Morb Mortal Wkly Rep 48:513-8.
49. el Nageh M, Khadre MA, Gould EA. 1988. Analysis of neutralizing antibody responses against poliovirus types 1, 2 and 3 in the Tripoli area of the Socialist People's Libyan Arab Jamahiriya. Trans R Soc Trop Med Hyg 82:758-60.
50. Centers for Disease Control and Prevention. 2003. Progress toward poliomyelitis eradication--Southern Africa, 2001-March 2003. MMWR Morb Mortal Wkly Rep 52:521-4.

51. Rousset D, Rakoto-Andrianarivelo M, Razafindratsimandresy R, Randriamanalina B, Guillot S, Balanant J, Mauclere P, Delpeyroux F. 2003. Recombinant vaccine-derived poliovirus in Madagascar. Emerg Infect Dis 9:885-7.
52. Rakoto-Andrianarivelo M, Gumede N, Jegouic S, Balanant J, Andriamamonjy SN, Rabemanantsoa S, Birmingham M, Randriamanalina B, Nkolomoni L, Venter M, Schoub BD, Delpeyroux F, Reynes JM. 2008. Reemergence of recombinant vaccine-derived poliovirus outbreak in Madagascar. J Infect Dis 197:1427-35.
53. Ismail HIHJM, Lal M. 1993. Poliomyelitis in Malaysia: two confirmed cases after 6 years without polio. Annals of Tropical Paediatrics 13:339-343.
54. Centers for Disease Control and Prevention. 1994. Progress toward global eradication of poliomyelitis, 1988-1993. MMWR Morb Mortal Wkly Rep 43:499-503.
55. Tangermann RH, Aylward BR, Hull HF, Nkowane B, Everts H, Olive JM. 1999. Progress towards the eradication of poliomyelitis globally and in Africa, January 2000. Med Trop (Mars) 59:475-82.
56. Muscat M, Fiore L, Busuttil R, Gilles HM. 2000. Surveillance of wild polioviruses in patients with acute flaccid paralysis in Malta during 1998 and 1999. Eur J Epidemiol 16:1057-60.
57. Hull HF. 2001. The future of polio eradication. The Lancet Infectious Diseases 1:299-303.
58. De Quadros CA, Andrus JK, Olive JM, Da Silveira CM, Eikhof RM, Carrasco P, Fitzsimmons JW, Pinheiro FP. 1991. Eradication of poliomyelitis: progress in the Americas. Pediatr Infect Dis J 10:222-9.
59. Centers for Disease Control and Prevention. 2001. Progress toward poliomyelitis eradication--South-East Asia, January 2000-June 2001. MMWR Morb Mortal Wkly Rep 50:738-42, 751.
60. Rumke HC, Oostvogel PM, Van Steenis G, Van Loon AM. 1995. Poliomyelitis in The Netherlands: a review of population immunity and exposure between the epidemics in 1978 and 1992. Epidemiol Infect 115:289-98.
61. Wilson N, Baker MG. 2012. Celebrating 50 years of polio elimination in New Zealand: but inadequate progress in eliminating other vaccine-preventable diseases. N Z Med J 125:67-74.
62. Orstavik I, Flugsrud LB, Lahelle O. 1971. Paralytic poliomyelitis in Norway since the introduction of trivalent oral vaccine: an epidemiological and virological study. Bull World Health Organ 45:733-9.
63. Shimizu H, Thorley B, Paladin FJ, Brussen KA, Stambos V, Yuen L, Utama A, Tano Y, Arita M, Yoshida H, Yoneyama T, Benegas A, Roesel S, Pallansch M, Kew O, Miyamura T. 2004. Circulation of type 1 vaccine-derived poliovirus in the Philippines in 2001. J Virol 78:13512-21.
64. World Health Organization Communication. Sub-regional coordination meeting on surveillance and certification of poliomyelitis eradication. World Health Organization Communication.
65. Ivanova OE, Eremeeva TP, Lipskaya GY, Cherkasova EA, Gavrilin EV, Drozdov SG. 2001. Outbreak of paralytic poliomyelitis in the Chechen Republic in 1995. Dev Biol (Basel) 105:231-7.
66. Hossain A, Bakir TF. 1989. Poliovirus infections in Saudi Arabia. J Trop Pediatr 35:265-6.
67. Lee HC, Tay J, Kwok CY, Wee MK, Ang LW, Kita Y, Cutter JL, Chan KP, Chew SK, Goh KT. 2012. Certification of poliomyelitis eradication in Singapore and the challenges ahead. Ann Acad Med Singapore 41:518-28.
68. Lee LH, Lim KA. 1977. Eradication of poliomyelitis in Singapore. Singapore Med J 18:34-40.
69. Blecher MS, Hussey G, Keen GA, Eggers R, Girdler-Brown B. 1994. Eradication of poliomyelitis in South Africa. S Afr Med J 84:664-8.
70. Centers for Disease Control and Prevention. 2005. Progress toward poliomyelitis eradication--poliomyelitis outbreak in Sudan, 2004. MMWR Morb Mortal Wkly Rep 54:97-9.
71. Centers for Disease Control and Prevention. 2009. Wild poliovirus type 1 and type 3 importations--15 countries, Africa, 2008-2009. MMWR Morb Mortal Wkly Rep 58:357-62.
72. Andrus JK, Banerjee K, Hull BP, Smith JC, Mochny I. 1997. Polio eradication in the World Health Organization South-East Asia Region by the year 2000: midway assessment of progress and future challenges. J Infect Dis 175 Suppl 1:S89-96.
73. Balayan MS, Domok I, Fayinka OA, Soneji AD. 1976. Some characteristics of poliovirus strains isolated in Uganda between 1966 and 1971. Bull World Health Organ 53:339-46.
74. Cross AB. 1989. The 1945 St Helena poliomyelitis epidemic after 40 years. J R Soc Med 82:339-42.

75. Yakovenko ML, Gmyl AP, Ivanova OE, Eremeeva TP, Ivanov AP, Prostova MA, Baykova OY, Isaeva OV, Lipskaya GY, Shakaryan AK, Kew OM, Deshpande JM, Agol VI. 2014. The 2010 outbreak of poliomyelitis in Tajikistan: epidemiology and lessons learnt. Euro Surveill 19:20706.
76. Echezuria E. 1974. The status of poliomyelitis in Venezuela. Bull Pan Am Health Organ 8:66-71.
77. Hagiwara A, Yoneyama T, Yoshii K, Yoshida H, Shimizu H, Wada J, Thanh NT, Van Tu P, Miyamura T. 1999. Genetic analysis of wild polioviruses towards the eradication of poliomyelitis from the Western Pacific Region. Jpn J Infect Dis 52:146-9.