

Definitions: OPV/Sabin as well as OPV/Sabin poliovirus infectious materials resp. potentially infectious materialsⁱ

Poliovirus, Sabin (OPV/Sabin strains): Attenuated poliovirus strains (approved for use in oral polio vaccines by national regulatory authorities, principally Sabin strains).

Poliovirus, OPV-like: For the laboratory network not involved in manufacture, isolates consistent with a limited period of virus excretion or person-to-person transmission, demonstrating less than 1% difference from parent OPV strains for poliovirus types 1 and 3, and less than 0.6% difference from the type 2 parent OPV strain by full Viral Protein 1 sequence homology. The phenotype of clinical and environmental OPV-like isolates need not be determined as the great majority are assumed to be of low virulence.

Sabin materials may be (a) infectious or (b) potentially infectious. The attenuated phenotype of viruses resulting from manufacture based on the OPV/Sabin seeds must be assured and cannot rely on the lack of sequence drift alone.

(a) **Poliovirus infectious materials, OPV/Sabin:** These include:

- cell culture isolates and reference OPV/Sabin strains;
- seed stocks and live virus materials from OPV production;
- environmental sewage or water samples that have tested positive for the presence of OPV/Sabin strains;
- faecal or respiratory secretion samples from recent OPV recipients;
- infected animals or samples from such animals, including poliovirus receptor transgenic mice;
- derivatives produced in the laboratory that have capsid sequences from OPV/Sabin strains;
- full-length RNA or cDNA that includes capsid sequences derived from OPV/Sabin strains;
- cells persistently infected with poliovirus strains whose capsid sequences are derived from OPV/Sabin strains.

(b) **Poliovirus potentially infectious materials, OPV/Sabin:** These include:

- faecal or respiratory secretion samples collected for any purpose in a time and geographic area of OPV use;
- products of such materials from poliovirus permissive cells or animals;
- respiratory and enteric virus stocks handled under conditions where OPV/Sabin strain contamination or replication is possible.

ⁱ WHO global action plan to minimize poliovirus facility-associated risk, Annex 1, Definitions