

GRADE table: Immunogenicity conferred by 1 vs 2 drops of monovalent oral poliovirus vaccine type 2 vaccine

Population : Immunocompetent children 9-22 months of age; naive to previous live type 2 poliovirus

Intervention: 1 drop of monovalent oral poliovirus vaccine type 2 vaccine (mOPV2)

Comparison: 2 drops of mOPV2

Outcome : Immune response (Seroconversion or boosting)

PICO Question: What is the evidence that 1 drop of mOPV2 is equally immunogenic as 2 drops of mOPV2 in immunocompetent children.			
		Rating	Adjustment to rating
Quality Assessment	No of studies/starting rating		1 RCT
	Factors decreasing confidence	Limitation in study design	Serious ¹
		Inconsistency	None serious
		Indirectness	None serious
		Imprecision	Serious ²
		Publication bias	None detected
	Factors increasing confidence	Strength of association/ large effect	Not applicable
		Dose-response	Not applicable
		Antagonistic /mitigated bias and confounding	Not applicable
	Final numerical rating of quality of evidence		2
Summary of Findings	Statement on quality of evidence		Evidence supports a low level of confidence that the true effect lies close to that of the estimate of the effect on the health outcome.
	Conclusion		The observed difference in immunogenicity was <10% however we failed to achieve non-inferiority at 10% level given wide confidence intervals..

References

- Summary of PRELIMINARY results ahead of print: Immunogenicity of mOPV2 administered as 1-drop or 2-drops.
https://www.who.int/immunization/sage/meetings/2019/october/3_Preliminary_Results_mOPV2_one_drop_trial_v_2.pdf?ua=1, accessed Sept 2019

¹ Substantial loss to follow-up. Lack of blinding (open-label).

² Wide confidence intervals.