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Comparison of Currently Manufactured Oral Cholera Vaccines and New Vaccines that May Soon Be Available

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The table shows the vaccines that are registered and available depending on the situation. The largest number of doses of cholera vaccine is Euvichol-plus which is available through the Global Stockpile for use in LMICs. The cost is relatively low and when obtained through the stockpile, the cost is covered by GAVI, Dukoral and Vaxchora are primarily used by travelers going to areas at risk for cholera. Dukoral is also used to reduce the risk of traveler’s diarrhea.

Cholera vaccines that are currently registered

Vaccine	Euvichol-Plus	Dukoral	Vaxchora
Manufacturer	EuBiologics Co., Ltd (Korea)	Valneva	Bavarian Nordic
Where available	Global stockpile	Travel Clinics multiple countries (not USA)	Travel Clinics in USA
Description	Inactivated killed bacterial vaccine against serotypes <i>V. cholerae</i> O1 & O139	Inactivated killed bacterial vaccine against serotype <i>V. cholerae</i> O1 and enterotoxigenic E coli expressing heat labile toxin	Attenuated live oral vaccine against serotype <i>V. cholerae</i> O1
Components	killed whole cells of <i>V. cholerae</i> O1 (Classical and El Tor biotypes) and <i>V. cholerae</i> O139	killed whole cells of <i>V. cholerae</i> O1 (Classical and El Tor biotypes) plus B subunit of the cholera toxin	A live bacterial vaccine consisting of an attenuated strain of <i>V cholerae</i> serotype O1
Recommended age	1 year and older	2 years and older	2 to 64 years
Delivery	Oral	Oral	Oral
Doses	2	2	1
Buffer	None	Vaccine must be given with a buffer	Vaccine must be given with a buffer
Booster dose	No information	No information	No information
Price per dose	1.30	\$150 for two doses in Canada	\$279 / dose in the USA
Storage Temp	+2 to +8° C	+2 to +8° C	+2 to +8° C
Packaging	Single dose 1.5 ml/vial; Plastic Vial OCV	Single dose 3 ml/vial must be mixed with buffer	Single-dose carton containing 2 packets

This table shows the vaccines that will likely be registered by 2025 to 2027. Euvichol-S is very similar to Euvichol-S but does not include the serotype O139 (it is not needed) and it uses only two strains to prepare the vaccine. Hillchol is very similar to Euvichol, but uses only a single strain consisting of serotype Hikojima which expresses antigens of both Inaba and Ogawa. Panchol is a promising new live attenuated vaccine that has shown promise in volunteers but will require several more years to finalize development.

Cholera vaccines that are not yet registered in 2025			
Vaccine	Euvichol-S	Hillchol	Panchol
Manufacturer	EuBiologics Co., Ltd (Korea)	Bharat Biologicals (India)	Harvard University
Description	killed bacterial vaccine against serotypes <i>Vibrio cholerae</i> O1	killed bacterial vaccine against serotypes <i>Vibrio cholerae</i> O1	Attenuated <i>V. cholerae</i> Inaba against serotypes <i>Vibrio cholerae</i> O1
Components	Formalin inactivated <i>V. cholerae</i> O1 Inaba and Ogawa	Formalin inactivated <i>V. cholerae</i> O1 serotype Hikojima	A live bacterial vaccine consisting of an attenuated strain of <i>V cholerae</i> serotype O1
Recommended age	1 year and older	1 year and older	No information
Delivery	Oral	Oral	Oral
Doses	2	2	1
Buffer	None	None	Vaccine must be given with a buffer
Booster dose	No information	No information	No information
Price per dose	Not determined	Not determined	No information
Storage Temp	+2 to +8° C	+2 to +8° C	No information
Packaging	Single dose 1.5 ml/vial; Plastic Vial	Single dose 1.5 ml/vial; Plastic Vial	No information