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Section S0: Grading of adverse events

- Grade 1-Mild: Transient or mild discomforts (usually < 48 hours), no or minimal medical intervention/ therapy required, hospitalization not necessary (non-prescription or single-use prescription therapy may be employed to relieve symptoms (e.g., aspirin for a headache)
- Grade 2-Moderate: Mild to moderate limitation in activity, some assistance may be needed; no or minimal intervention/ therapy required, hospitalization possible
- Grade 3-serious: Marked limitation in activity; medical intervention/therapy or hospitalization to prevent permanent disability, life-threatening condition, or death

20 Table S1: Reported frequencies of symptoms prior to and 30 minutes
 21 after MVA-BN administration

Characteristic	Liquid		Lyophilized	
	Before N = 1,971 ¹	After N = 1,971 ¹	Before N = 1,173 ¹	After N = 1,173 ¹
Any Symptom	45/1967 (2.3%)	4/1959 (0.2%)	6/1173 (0.5%)	1/1173 (<0.1%)
Chills	6/1970 (0.3%)	1/1961 (<0.1%)	1/1173 (<0.1%)	0/1173 (0%)
Sweating	1/1970 (<0.1%)	0/1961 (0%)	0/1173 (0%)	0/1173 (0%)
Fever	3/1969 (0.2%)	0/1961 (0%)	0/1173 (0%)	0/1173 (0%)
Nausea	2/1970 (0.1%)	0/1961 (0%)	0/1173 (0%)	0/1173 (0%)
Fatigue	6/1970 (0.3%)	0/1961 (0%)	1/1173 (<0.1%)	0/1173 (0%)
Myalgia	8/1970 (0.4%)	0/1960 (0%)	0/1173 (0%)	0/1173 (0%)
Arthralgia	6/1969 (0.3%)	1/1961 (<0.1%)	0/1173 (0%)	0/1173 (0%)
Headache	16/1970 (0.8%)	1/1961 (<0.1%)	3/1173 (0.3%)	0/1173 (0%)
Dizziness	6/1970 (0.3%)	1/1959 (<0.1%)	0/1173 (0%)	1/1173 (<0.1%)
Chest pain	8/1968 (0.4%)	0/1961 (0%)	0/1173 (0%)	0/1173 (0%)
Shortness of breath	4/1968 (0.2%)	0/1961 (0%)	0/1173 (0%)	0/1173 (0%)
Arm pain	4/1967 (0.2%)	0/1961 (0%)	0/1173 (0%)	0/1173 (0%)
Arm swelling	1/1961 (<0.1%)	0/1960 (0%)	1/1173 (<0.1%)	0/1173 (0%)

22 ¹Includes both first and second doses

23 Table S2. Serious adverse event reports

Participant number	Formulation	Sex	Age group	Event	Time to event from last vaccine dose	Cause of SAE per clinician review and report
1	Liquid	F	60-69	Death	11 months	Head injury
2	Liquid	F	30-39	Death	8 months	Acute hepatitis with severe anemia
3	Liquid	M	40-49	Death	3 months	Not specified; patient presented with swelling and ulceration of the leg, headaches, dyspnea, fever; patient consulted with a traditional healer
4	Liquid	M	50-59	Death	10 months	Not specified; the patient did not seek medical care and died at home after unquantified weight loss and prolonged fever
5	Liquid	M	70+	Death	9 months	Acute gastroenteritis associated with severe malaria
6	Liquid	M	70+	Death	4 months	Not specified; the patient had a diagnosis of hypertensive encephalopathy and malaria
7	Liquid	M	30-39	Death	8 months	Alcohol intoxication
8	Liquid	M	40-49	Death	2 months	Cerebral Vascular Accident; Cryptococcus neoformans in a patient infected with HIV
9	Liquid	M	50-59	Death	1 week	Alcoholic encephalopathy, hypoglycemia, lung disease
10	Liquid	M	40-49	Death	1 year 4 months	Complications secondary to hepatic cirrhosis including hepatic encephalopathy, ascites, respiratory distress
11	Liquid	M	40-49	Death	1 year 6 months	Opportunistic infections secondary to advanced HIV
12	Liquid	M	30-39	Death	1 year 9 months	Liver cancer and hepatitis B complicated by ascites

13	Liquid	F		Still birth	9 months	Received second dose of vaccine likely prior to or days near conception. Stillbirth at 37 weeks (weight 1000g),
14	Lyophilized	F	40-49	Death	1 year 3 months	Cerebrovascular event in the context of advanced HIV
15	Lyophilized	M	70+	Death	1 year 5 months	Hypertensive cardiomyopathy complicated by severe anemia (Hgb, 6 mg/dL)
16	Lyophilized	M	40-49	Death	1 year 3 months	Right inguinal/scrotal hernia complicated by septic shock
17	Lyophilized	M	30-39	Death	11 months	Tonic clonic movements followed by sudden cardiac arrest
18	Lyophilized	M	70+	Death	1 year, 11 months	Septic shock secondary to necrotic ulcer from a machete wound >8 months prior

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