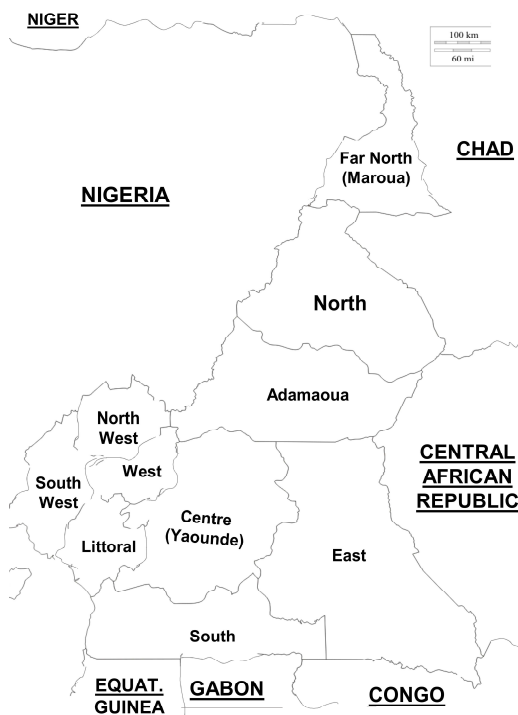


SUPPLEMENTAL MATERIALS

A) Central/West Africa



B) Cameroon



C) Far North region of Cameroon

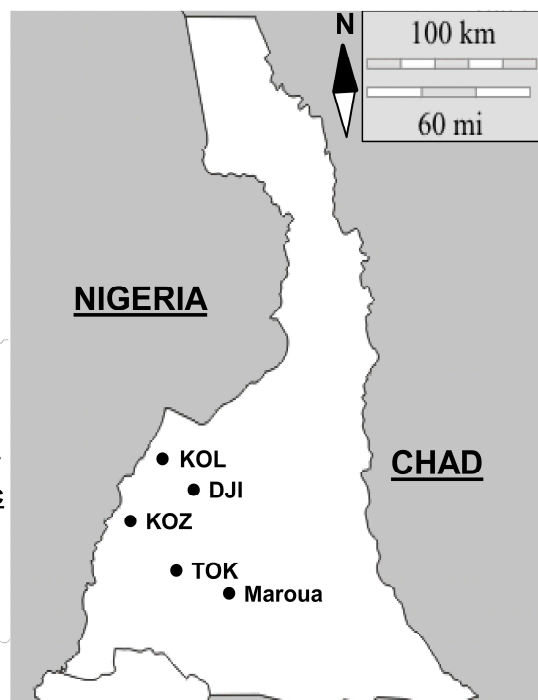


Figure S1. Geographic areas where the stool specimens and isolates originated from. A- Central/West Africa. B- Cameroon and neighboring countries. C- Far North region of Cameroon. The rural districts of Djinglya (DJI); Kolofata (KOL); Koza (KOZ); and Tokombere (TOK,) are indicated. The urban districts of Djarengol (DJA); Dougoi (DOU); and Founangue (FOU) are located in Maroua town. The figure was drawn with some outline maps provided by d-maps.com (<http://d-maps.com/index.php?langfr>).

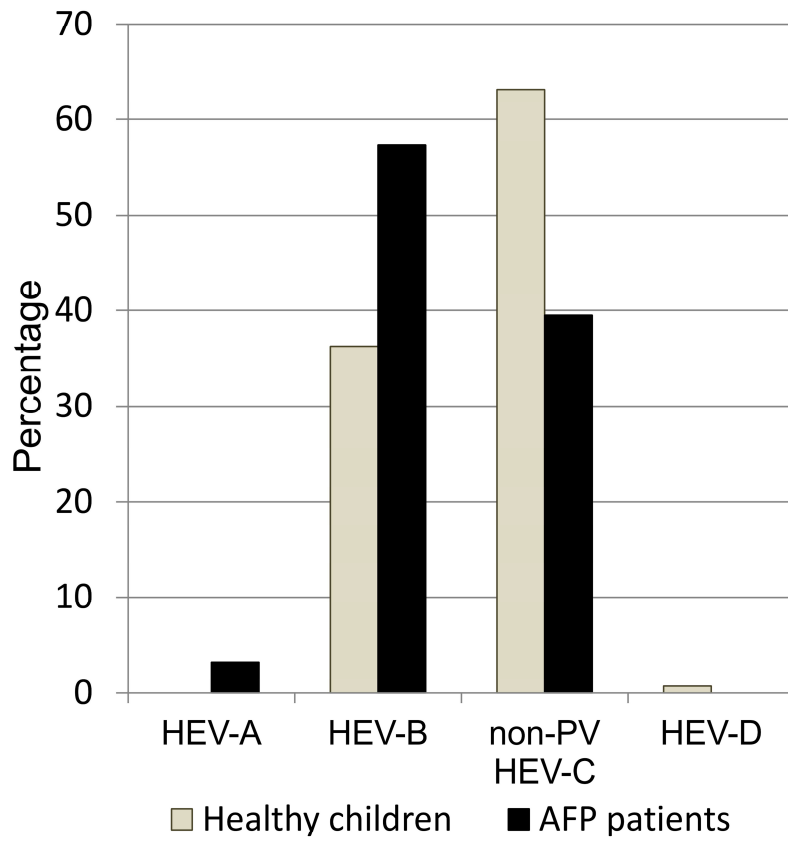


Figure S2. Distribution of NPEV species identified in healthy children and AFP patients in Cameroon and Neighboring countries. 100% refers to the total number of NPEVs isolated from each population.

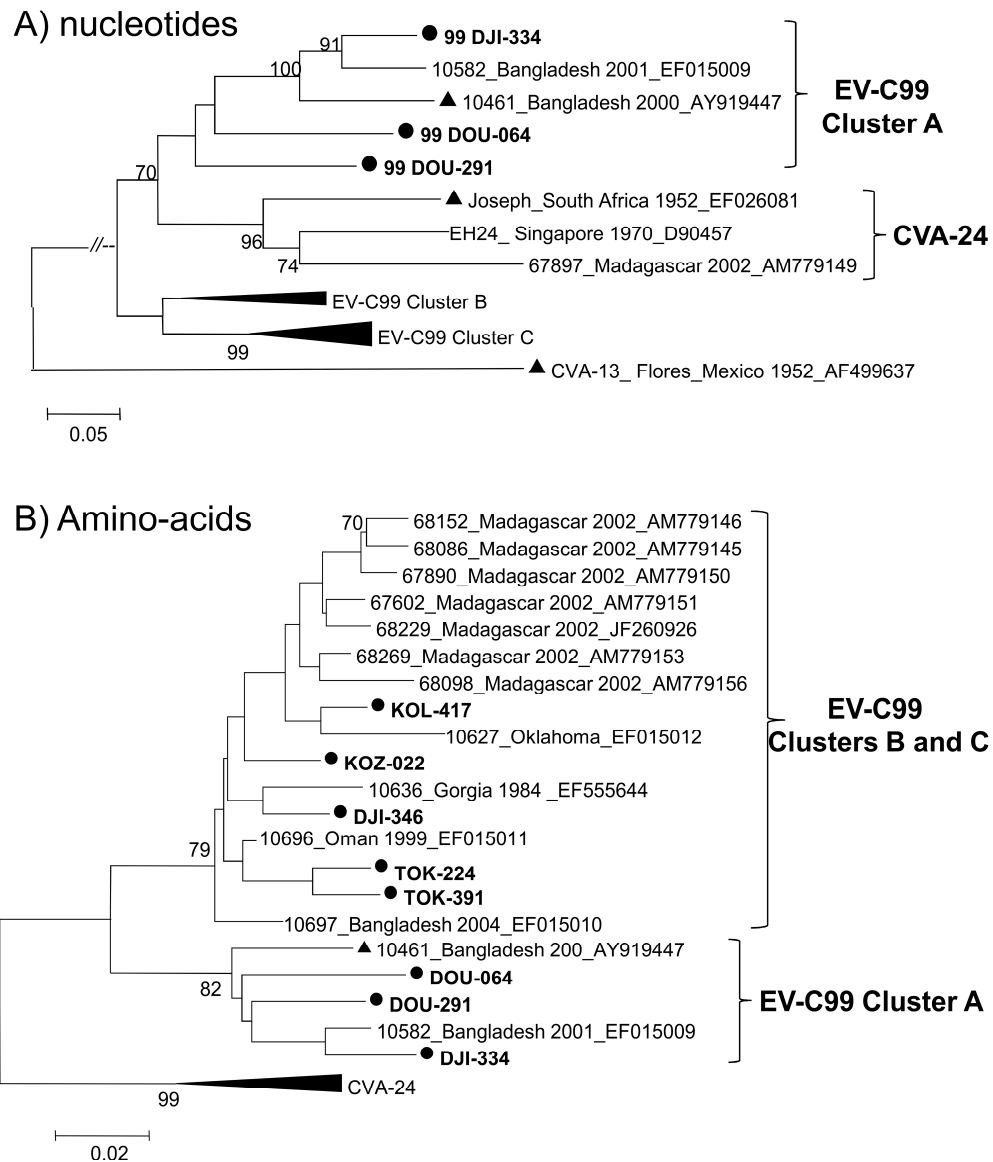


Figure S3. Phylogenetic relationships of CVA-24 and EV-C99 isolates. A- Phylogram based on the alignment of the partial 5'-third of the VP1 sequences (nt 1-300 according to the CVA-24 prototype strain Joseph VP1 numbering). B- Phylogram based on the deduced aa sequences of the complete VP1 sequences. Nucleotide and protein distances were calculated using the Jukes-Cantor corrected model and PAM-001 matrix (Dayhoff *et al.*, 1979), respectively. The phylogenetic relationships were reconstructed using the neighbor-joining algorithm implemented in MEGA 5.05. The newly sequenced Cameroonian strains are highlighted by circle (●) and prototype strains are emphasized by triangles (▲). The reliability of the tree topology was assessed with 1000 bootstrap pseudoreplicates. Bootstrap values less than 70 have been omitted. The scale bars indicate nucleotide and amino acid distances as substitutions per site.

Table S1. Full-length VP1 sequencing and typing of 67 studied HEV-C strains.

Isolate ^a	Highest identity score (%) ^b			Second-highest identity score (%) ^b			Delta score (%) ^c	Genotype ^d	serotype support ^d	Accession no.
	Type	nt	aa	Type	nt	aa				
DOU-057	CVA-11	80.2	95.4	EV-99	66.0	67.4	14.2	CVA-11	100	JX417821
C08-011	CVA-13	73.8	86.7	CVA-17	69.6	80.6	4.2	CVA-13	99	JX417824
C08-016	CVA-13	73.1	90.9	CVA-17	70.7	82.5	2.5	CVA-13	98	JX417825
C08-074	CVA-13	73.7	90.3	CVA-17	70.6	81.2	3.1	CVA-13	98	JX417826
C08-096	CVA-13	77.1	93.5	CVA-20	68.6	77.0	8.5	CVA-13	99	JX417851
C08-102	CVA-13	74.5	89.6	CVA-20	68.5	78.0	6.0	CVA-13	100	JX417827
C08-139	CVA-13	75.0	91.3	EV-102	69.9	78.3	5.1	CVA-13	100	JX417828
C08-195	CVA-13	73.4	90.6	CVA-17	70.8	83.2	2.6	CVA-13	99	JX417829
DJA-088	CVA-13	76.3	94.5	CVA-17	70.6	81.6	5.7	CVA-13	100	JX417830
DJA-303	CVA-13	73.1	90.9	CVA-17	70.7	82.2	2.5	CVA-13	99	JX417831
DJI-042	CVA-13	76.7	94.5	CVA-17	70.4	80.9	6.3	CVA-13	100	JX417832
DJI-333	CVA-13	75.3	90.3	CVA-17	68.1	79.9	7.2	CVA-13	100	JX417833
DJI-337	CVA-13	73.6	89.3	CVA-17	70.4	79.9	3.18	CVA-13	99	JX417834
FOU-276	CVA-13	79.8	95.5	CVA-20	70.1	79.6	9.7	CVA-13	100	JX417835
KOL-152	CVA-13	72.7	90.3	CVA-17	70.7	81.6	2.1	CVA-13	96	JX417836
KOL-169	CVA-13	72.2	87.7	CVA-20	66.8	75.7	5.4	CVA-13	93	JX417837
KOL-365	CVA-13	71.6	86.7	CVA-17	70.9	80.9	0.7	CVA-13	100	JX417838
KOL-408	CVA-13	73.0	91.9	CVA-17	71.8	82.5	1.2	CVA-13	100	JX417839
KOL-415	CVA-13	73.6	89.3	CVA-20	69.7	77.7	3.9	CVA-13	98	JX417840
KOL-427	CVA-13	77.2	95.8	EV-102	70.7	79.0	6.6	CVA-13	98	JX417841
KOZ-012	CVA-13	74.1	89.0	CVA-17	70.6	79.9	3.6	CVA-13	97	JX417842
KOZ-015	CVA-13	73.8	90.9	CVA-17	69.5	82.2	4.3	CVA-13	99	JX417843
KOZ-021	CVA-13	73.4	90.3	CVA-17	69.8	82.2	3.6	CVA-13	99	JX417844
T08-086	CVA-13	75.1	91.6	CVA-17	71.5	83.5	3.6	CVA-13	96	JX417845

T08-205	CVA-13	78.0	94.2	EV-102	68.9	79.0	9.1	CVA-13	97	JX417846
TOK-200	CVA-13	72.8	87.1	CVA-17	68.8	80.9	4.04	CVA-13	91	JX417847
TOK-349	CVA-13	78.4	94.5	EV-102	69.7	79.0	8.7	CVA-13	100	JX417848
TOK-387	CVA-13	76.6	93.5	CVA-20	69.6	78.0	7.0	CVA-13	98	JX417849
TOK-388	CVA-13	78.2	93.9	EV-102	70.6	81.9	7.7	CVA-13	99	JX417850
DJA-304	CVA-17	77.3	93.8	CVA-13	69.9	83.8	7.44	CVA-17	100	JX417852
DJA-316	CVA-17	79.5	95.1	EV-102	71.3	80.2	8.18	CVA-17	100	JX417853
DJI-329	CVA-17	80.8	94.1	EV-102	70.7	80.2	10.15	CVA-17	100	JX417854
C08-098	CVA-20	84.4	96.4	EV-102	73.9	84.9	10.5	CVA-20	97	JX417855
C08-151	CVA-20	75.4	91.2	EV-102	72.4	85.6	3.1	CVA-20	99	JX417856
DJA-079	CVA-20	81.4	95.4	EV-102	71.8	83.9	9.5	CVA-20	95	JX417857
DJI-027	CVA-20	79.7	94.1	EV-102	71.9	84.6	7.8	CVA-20	94	JX417858
DJI-340	CVA-20	75.6	91.5	EV-102	70.6	83.3	4.9	CVA-20	98	JX417859
DOU-070	CVA-20	81.8	94.7	CVA-13	71.4	83.3	10.4	CVA-20	97	JX417860
KOL-125	CVA-20	79.2	94.1	EV-102	72.3	84.6	6.9	CVA-20	96	JX417861
T08-167	CVA-20	91.0	97.7	CVA-13	72.0	83.3	19.1	CVA-20	93	JX417862
T08-184	CVA-20	78.5	93.1	EV-102	72.5	84.6	6.0	CVA-20	100	JX417863
T08-186	CVA-20	83.6	95.4	EV-102	72.3	84.6	11.3	CVA-20	93	JX417864
TOK-231	CVA-20	80.6	95.7	EV-102	71.0	84.6	9.6	CVA-20	95	JX417865
TOK-380	CVA-20	79.7	93.4	EV-102	70.7	84.6	9.0	CVA-20	92	JX417866
T08-049	CVA-21	78.2	93.3	CVA-24	66.4	73.8	11.8	CVA-21	100	JX417867
<i>T08-083</i>	<i>CVA-21</i> *	<i>70.7</i>	<i>83.9</i>	<i>CVA-24</i>	<i>65.9</i>	<i>73.8</i>	<i>4.8</i>	<i>CVA-21</i>	<i>98</i>	<i>JX417822</i>
<i>T08-234</i>	<i>CVA-21</i> *	<i>70.0</i>	<i>84.2</i>	<i>CVA-24</i>	<i>66.2</i>	<i>73.8</i>	<i>3.8</i>	<i>CVA-21</i>	<i>100</i>	<i>JX417823</i>
C08-160	CVA-24	87.1	95.1	EV-99	73.0	83.0	14.1	CVA-24	100	JX417868
DJI-026	CVA-24	80.6	92.8	EV-99	73.2	83.0	7.4	CVA-24	100	JX417869
DJI-040	CVA-24	79.0	92.1	EV-99	72.6	81.6	6.4	CVA-24	100	JX417870
DJI-335	CVA-24	81.0	93.1	EV-99	73.6	83.0	7.4	CVA-24	100	JX417871

DJI-343	CVA-24	79.7	90.5	EV-99	73.2	81.6	6.5	CVA-24	100	JX417872
DOU-054	CVA-24	78.9	90.5	EV-99	73.7	82.6	5.2	CVA-24	100	JX417873
FOU-101	CVA-24	77.8	93.1	EV-99	72.9	83.3	5.0	CVA-24	100	JX417874
G08-005	CVA-24	77.2	91.8	EV-99	72.1	81.3	5.1	CVA-24	100	JX417879
KOL-156	CVA-24	76.4	91.5	EV-99	73.1	82.3	3.3	CVA-24	100	JX417875
KOZ-013	CVA-24	78.7	92.8	EV-99	72.2	81.6	6.5	CVA-24	100	JX417876
<i>T08-148</i>	<i>CVA-24</i>	<i>78.7</i>	<i>90.8</i>	<i>EV-99</i>	<i>72.7</i>	<i>83.3</i>	<i>6.0</i>	<i>NA</i>	<i>/</i>	<i>JX417878</i>
TOK-381	CVA-24	77.3	90.5	EV-99	74.1	83.3	3.2	CVA-24	100	JX417877
DJI-334	EV-C99	80.9	87.8	CVA-24	71.3	75.5	9.6	EV-99	100	JX417880
DJI-346	EV-C99	73.3	88.5	CVA-24	73.4	84.3	-0.1	EV-99	100	JX417881
DOU-064	EV-C99	79.3	94.7	CVA-24	72.6	81.7	6.7	EV-99	100	JX417882
DOU-291	EV-C99	78.4	93.1	CVA-24	71.2	81.1	7.2	EV-99	100	JX417883
KOL-417	EV-C99	74.3	88.8	CVA-24	71.9	83.3	2.4	EV-99	100	JX417884
KOZ-022	EV-C99	73.6	88.8	CVA-24	71.8	82.7	1.8	EV-99	100	JX417885
TOK-224	EV-C99	74.8	88.8	CVA-24	71.3	83.3	3.5	EV-99	100	JX417886
TOK-391	EV-C99	74.8	89.1	CVA-24	72.8	85.0	2.0	EV-99	100	JX417887

* Actual closest prototype is EV-C95 whose genomic sequence is not yet available in GenBank (see details in the main text).

^a Isolates from healthy children are identified with codes defined by the local district (three-letter code: DJA, Djarengol; DJI, Djinglya; DOU, Dougoi; FOU, Founangue; KOL, Kolofata; KOZ, Koza; TOK, Tokombere) followed by internal laboratory code. Isolates from AFP patients are identified by codes defined by the country of origin (one-letter code: C, Cameroon; T, CHAD; g, Gabon), followed by the year of isolation (08, 2008) and internal laboratory code.

^b nt, nucleotide; aa, amino acid.

^c Differences between the highest and second-highest nucleotide scores.

^d Serotype determined by the Automated Enterovirus Genotyping Tool Version 0.1; NA, not applicable. Isolates showing discrepancies between the two methods are labeled in italics.