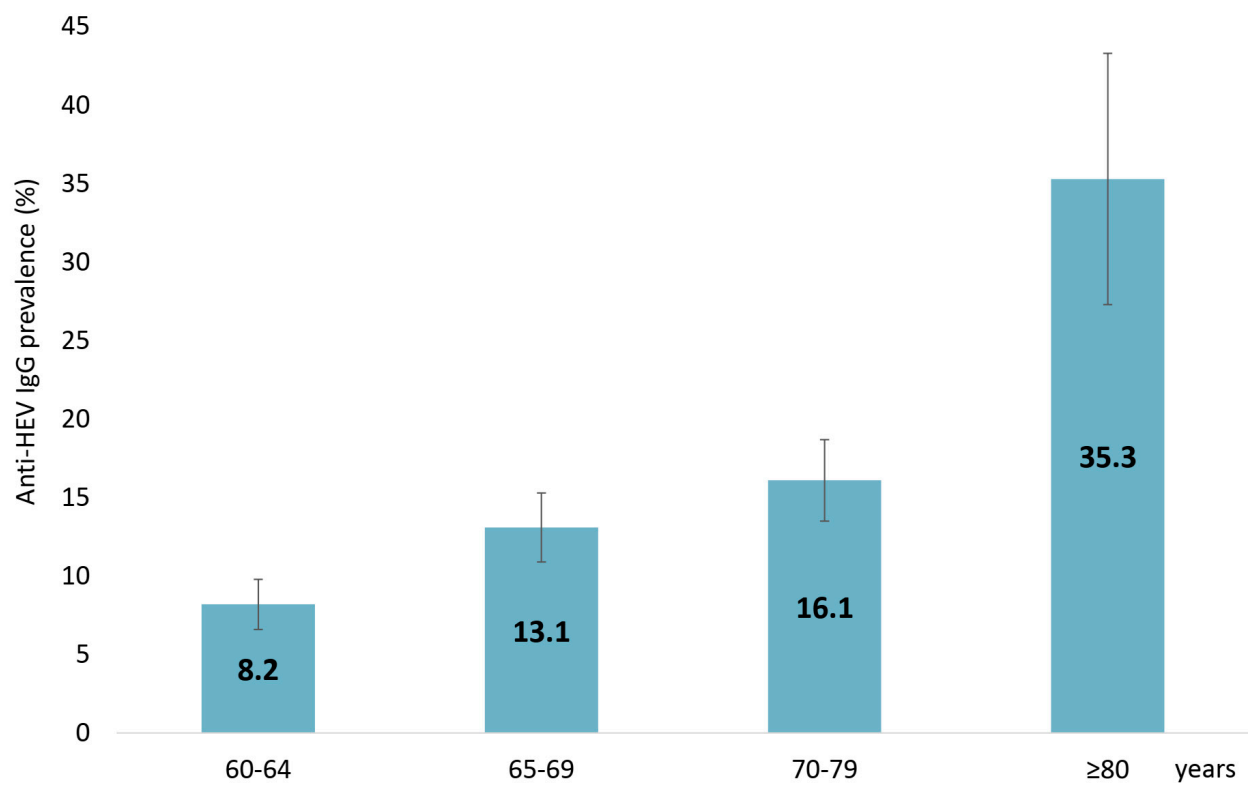


Supplementary figure S1. Temporal signal linear regression graph for HEV-3 ORF-2 300 nt fragment.



Supplementary figure S2. Age-specific anti-HEV IgG antibody prevalence rates in elderly participants from the regions studied in 2018-2020. Error bars on the bar graphs represent 95% CI.

Supplementary table S1. Anti-HEV IgG antibody positivity rates in age cohorts of healthy volunteers in regions of the Russian Federation

Region	Year	Anti-HEV IgG N positive/N tested (%) in age cohorts						
		1-14 years	15-19 years	20-29 years	30-39 years	40-49 years	50-59 years	≥ 60 years
Kaliningrad Region	2019	1/399 (0.3%)	3/104 (2.9%)	5/103 (4.9%)	12/129 (9.3%)	17/116 (14.7%)	17/99 (17.2%)	25/100 (25.0%)
St. Petersburg	2020	3/467 (0.6%)	2/129 (1.6%)	40/1455 (2.7%)	82/1961 (4.2%)	39/669 (5.8%)	21/401 (5.2%)	23/246 (9.3%)
Belgorod Region	2019	1/159 (0.6%)	11/193 (5.7%)	7/124 (5.6%)	9/135 (6.7%)	17/121 (14.1%)	26/132 (19.7%)	48/134 (35.8%)
Dagestan Republic	2020	31/1985 (1.6%)	8/545 (1.5%)	6/755 (0.8%)	6/550 (1.1%)	7/277 (2.5%)	10/307 (3.3%)	135/530 (25.2%)
Moscow Region	2008	19/455 (4.2%)	4/152 (2.6%)	3/104 (2.9%)	5/100 (5.0%)	6/105 (5.7%)	10/114 (8.8%)	42/149 (28.2%)
	2020	3/714 (0.4%)	4/212 (1.9%)	56/2012 (2.8%)	110/2751 (4.0)	60/1044 (5.7%)	40/490 (8.2%)	24/268 (9.0%)
Tatarstan Republic	2020	4/271 (1.5%)	6/93 (6.5%)	15/103 (14.6%)	21/112 (18.8%)	14/108 (13.0%)	13/111 (11.7%)	18/119 (15.1%)
Sverdlovsk Region	2008	2/421 (0.5%)	1/100 (1.0%)	1/81 (1.2%)	4/106 (3.8%)	5/104 (4.8%)	5/107 (4.7%)	9/108 (8.3%)
	2021	5/233 (2.2%)	0/204 (0.0%)	1/51 (2.0%)	11/147 (7.5%)	7/102 (6.9%)	8/99 (8.1%)	10/99 (10.1%)
Tuva Republic	2008	3/388 (0.8%)	2/100 (2.0%)	3/100 (3.0%)	9/100 (9.0%)	6/100 (6.0%)	12/100 (12.0%)	19/123 (15.5%)
	2019	7/359 (1.9%)	4/167 (2.4%)	4/147 (2.7%)	7/169 (4.1%)	7/112 (6.3%)	19/108 (17.6%)	20/99 (20.2%)
Novosibirsk Region	2020	16/2096 (0.8%)	13/913 (1.4%)	40/1602 (2.5%)	35/1615 (2.2%)	22/829 (2.7%)	22/519 (4.2%)	79/757 (10.4%)
Sakha Republic (Yakutia)	2008	2/406 (0.5%)	0/100 (0.0%)	2/123 (1.6%)	1/100 (1.0%)	3/100 (3.0%)	2/99 (2.0%)	11/97 (11.3%)
	2018	7/402 (1.7%)	2/99 (2/0%)	8/117 (6.8%)	6/119 (5.0%)	4/101 (4/0%)	12/116 (10.3%)	13/118 (11.0%)
Khabarovsk Region	2008	2/397 (0.5%)	3/99 (3.0%)	1/101 (1.0%)	3/99 (3.0%)	2/100 (2.0%)	3/100 (3.0%)	8/99 (8.1%)
	2020	17/1770 (1.0%)	13/527 (2.5%)	24/713 (3.4%)	27/624 (4.3%)	15/294 (5.1%)	19/333 (5.7%)	41/509 (8.1%)

Supplementary table S2. HEV RNA detection rates in piglets aged 2-4 months

Region	Farm #	Number of faecal samples	Number of HEV RNA positive samples (%)
Kaliningrad	1	57	5 (8.77%)
	2	64	28 (43.75%)
	3	76	0 (0.00%)
	4	60	0 (0.00%)
Arkhangelsk	1	37	9 (24.32%)
	2	81	19 (23.46%)
	3	137	24 (17.52%)
Belgorod	1	69	5 (7.25%)
	2	107	4 (3.74%)
	3	101	50 (49.50%)
	4 (2012)	74	17 (22.97%)
	4 (2013)	75	19 (25.33%)
	4 (2016)	100	20 (20.00%)
Vladimir	1	43	26 (60.47%)
Saratov	1	99	7 (7.07%)
	2	92	28 (30.43%)
	3	91	45 (49.45%)
Sverdlovsk	1	52	20 (38.46%)
	2	100	5 (5.00%)
	3	82	5 (6.10%)
Khabarovsk	1	128	26 (20.31%)
	2	107	0 (0.00%)
	3	84	2 (2.38%)