



ХАЛДВАРТ ӨВЧИН СУДЛАЛЫН
ҮНДЭСНИЙ ТӨВ



Монгол улс дахь 2023/2024 оны томуугийн улиралд бүртгэгдсэн томуу, томуу төст өвчин үүсгэгчдийн шинж төрх

АУ-ы магистр Н.Баясгалан
ХӨСҮТ-ВСЛ, ТҮТ,



Үндэслэл:

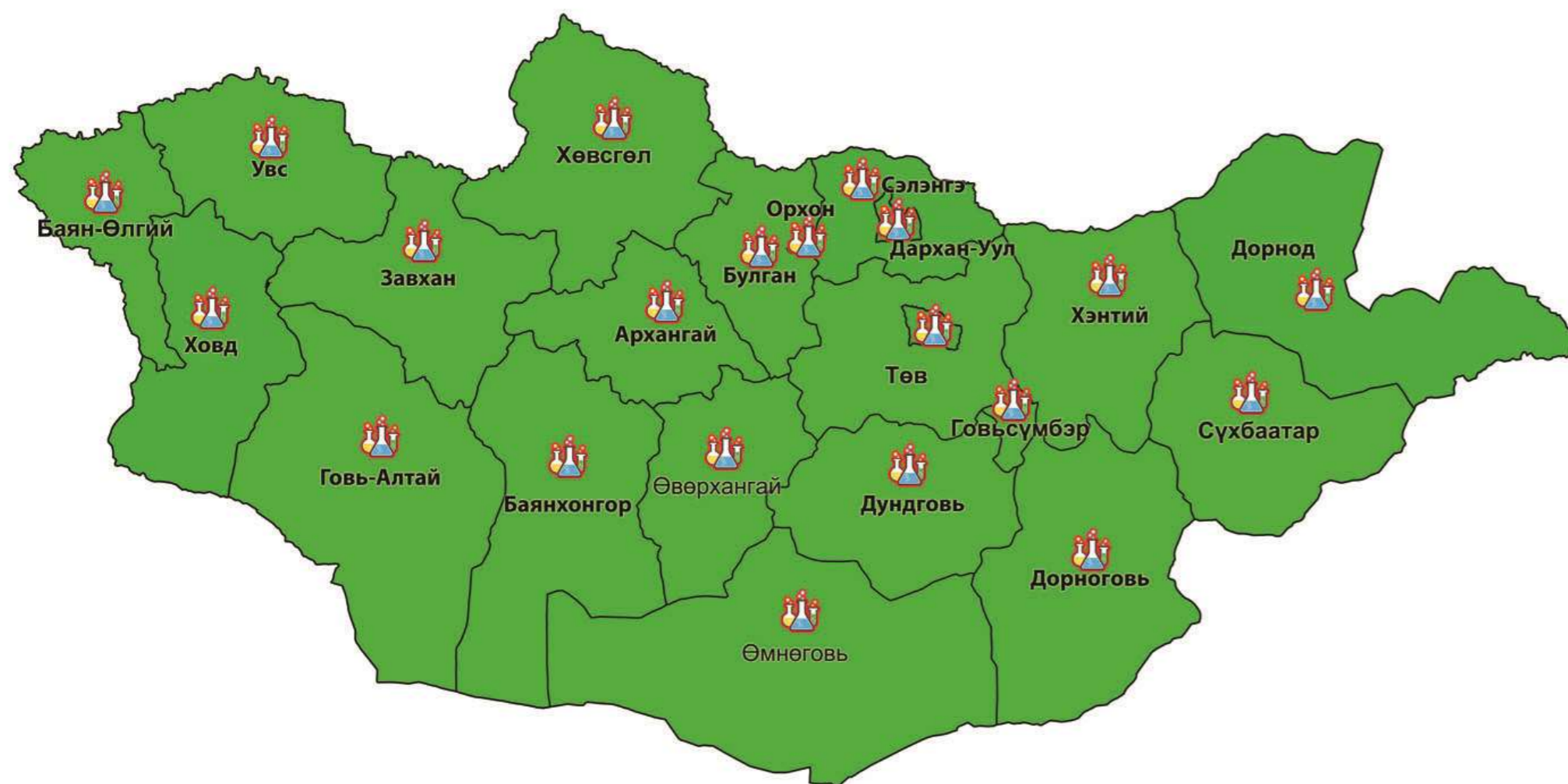


- Жилд дэлхийн хүн амын нас баралтыг шалтгаанаар нь ангилбал
 - 1.Зүрх судасны шалтгаанд нас баралт 28% ,
 - 2.Хавдрын шалтгаанаар 21% ,
 - 3.Амьсгалын замын халдварын шалтгаант 9% ,
 - 4.Ковид-19 шалтгаант 7%
- Дэлхий дахинд SARS-CoV-2-ийн Омикрон хувилбарын олон панголинийжууд одоо хэрэн дэгдэлт үүсгэсээр байгаа нь цар тахал бүрэн намжаагүй байгааг харуулж байна.
- Сүүлийн 100 жилд томуугийн вирус нь дэлхийн 100 сая хүн амын нас баралтын шалтгаан болсон.
- SARS-CoV-2-ос өмнө дэлхийн хүн ам томуугийн дөрвөн цар тахалтай тулгарч байсан.
- Богино хугацаанд цар тахлын шалтгаан болдог томуу, томуу төст вирусийн талаарх судалгааг тогтмол хийж, тандах шаардлагатай байна.



- Монгол улсын хүн амын дунд өвчлөл үүсгэсэн томуу, ТТӨ үүсгэгчдийн хөдлөл зүй, удмын шинжийг тодорхойлох.

Материал аргазүй



152 - Sentinel sites

30 - Virology laboratories

Хугацаа: 2023.06.01-2024.03.01

Түүвэр: Томуугийн харуулдан тандалтын цэгүүдээс ирүүлсэн.

Хамар залгиурын арчидас

Бааз: ХӨСҮТ-ийн Вирус судлалын лаборатори

- I. Ambulatory-based surveillance sites – 95
- II. Hospital-based surveillance sites – 38
- III. Additional surveillance sites – 18
- Entry points – 14
- Reference centers – 4



3311 сорьц, ХӨСҮТ. ВСЛ

*QIAGEN цомог, MagLEAD 12GC, SEEGENE Компани
SEEPREP32*

РНХ/ДНХ ялгах

*АНУ-ын Өвчний Хяналт Сэргийлэлтийн Төвийн
праймер, урвалжаар*

Bio-Rad CFX-96



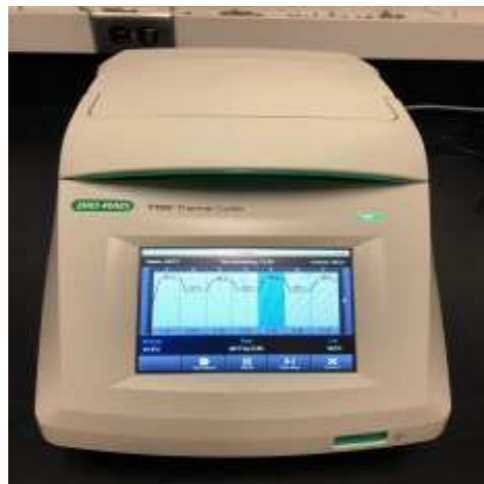
ТТӨ илрүүлэх
Seegene компани Allplex
ЦОМОГ

Томуу, SARS-CoV-2 илрүүлэх

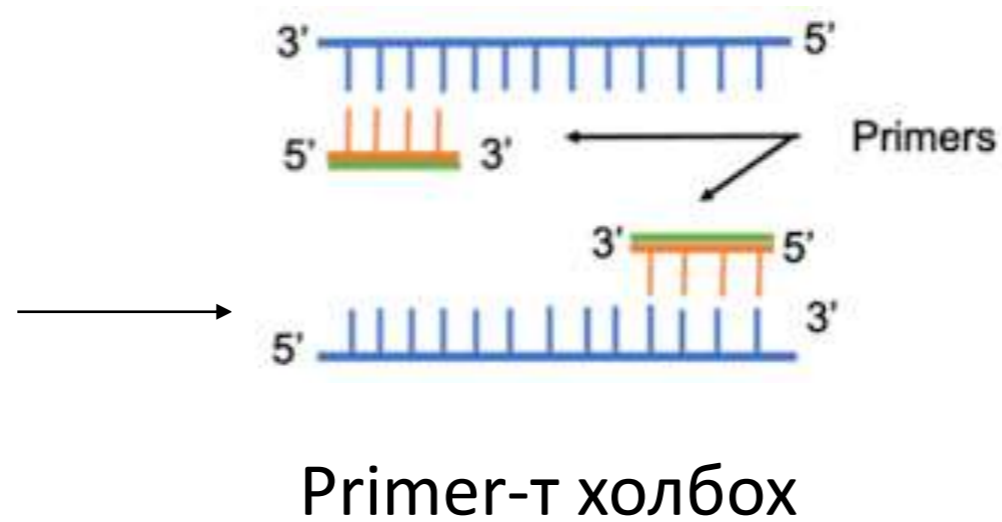
Томуу, SARS-CoV-2 вирусийн
дэд хэвшинжийг илрүүлэх

Томуу, АЗСВ, SARS-CoV-2
NGS шинжилгээ

Материал аргагүй



РНХ-гээс сДНХ
үүсгэх



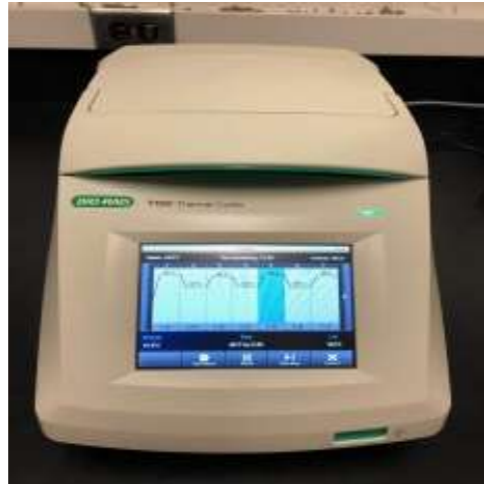
Цэвэрлэгээ



Бүтэгдэхүүний
хэмжилт



Олшруулсан бүтээгдэхүүнд flow cell-
н гадаргууд холбогдох хэсгийг
холбох

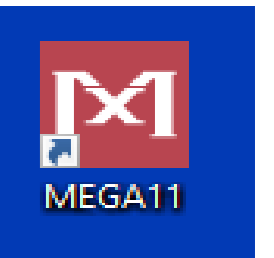


Бүтэгдэхүүний
хэмжилт

1-48
0.35 ng/uL

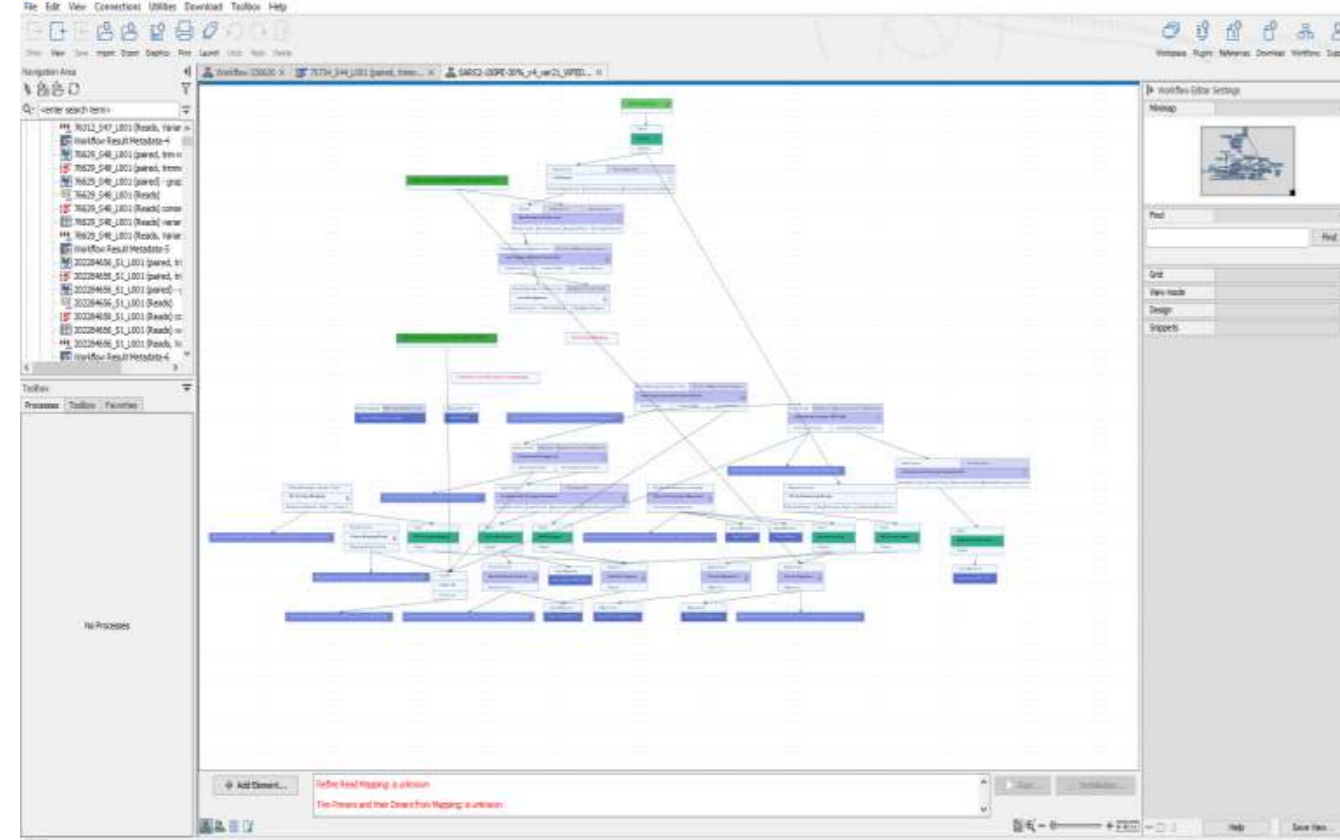


1,5-2MB
Fastq датаг



[GISAID - gisaid.org](http://gisaid.org)

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Released files

Name	SUBTYPE	PASSAGE	COLLECTION DATE	ISOLATE ID	SUBMITTER	SUBMITTING LAB	FB2	FB1	FA
A/Ulaanbaatar/1009/2023	H3N2	Original Spa	2023-12-07	EPI_ISL_19021289	Namutsatseg, Bayasgalan	National Center for Disease Control (NC	2,316	2,316	2,209
A/Ulaanbaatar/10408/2023	H3N2	Original Spa	2023-12-07	EPI_ISL_19039128	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,328	2,328	2,220
A/Ulaanbaatar/10425/2023	H3N2	Original Spa	2023-12-06	EPI_ISL_19039127	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,328	2,328	2,221
A/Ulaanbaatar/10485/2023	H3N2	Original Spa	2023-12-07	EPI_ISL_19039123	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,328	2,328	2,221
A/Ulaanbaatar/10471/2023	H3N2	Original Spa	2023-12-07	EPI_ISL_19035691	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,328	2,328	2,221
A/Ulaanbaatar/10480/2023	H3N2	Original Spa	2023-12-06	EPI_ISL_19038960	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,328	2,328	2,220
A/Ulaanbaatar/10483/2023	H3N2	Original Spa	2023-12-11	EPI_ISL_19038988	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,328	2,328	2,220
A/Ulaanbaatar/10483/2023	H3N2	Original Spa	2023-12-06	EPI_ISL_19038987	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,328	2,328	2,220
A/Ulaanbaatar/10490/2023	H3N2	Original Spa	2023-12-10	EPI_ISL_19035998	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,320	2,320	2,219
A/Bayan-Olgii/10508/2023	H3N2	Original Spa	2023-12-12	EPI_ISL_19038896	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,327	2,327	2,219
A/Bayan-Olgii/10507/2023	H3N2	Original Spa	2023-11-30	EPI_ISL_19038886	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,327	2,327	2,219
A/Bayan-Olgii/10508/2023	H3N2	Original Spa	2023-12-09	EPI_ISL_19038896	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,327	2,327	2,219
A/Bayan-Olgii/10509/2023	H3N2	Original Spa	2023-12-09	EPI_ISL_19038895	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,327	2,327	2,219
A/Ulaanbaatar/10584/2023	H3N2	Original Spa	2023-12-13	EPI_ISL_19038893	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,328	2,328	2,221
A/Ulaanbaatar/10597/2023	H3N2	Original Spa	2023-12-11	EPI_ISL_19038902	Namutsatseg, Bayasgalan	National Center for Disease Control (NC	2,328	2,328	2,220
A/Ulaanbaatar/10591/2023	H3N2	Original Spa	2023-12-14	EPI_ISL_19038892	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,328	2,328	2,220
A/Zamin-Uud/10630/2023	H3N2	Original Spa	2023-11-07	EPI_ISL_19038813	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,326	2,326	2,218
A/Ulaanbaatar/10706/2023	H3N2	Original Spa	2023-12-20	EPI_ISL_19038808	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,328	2,328	2,220
A/Ulaanbaatar/10737/2023	H3N2	Original Spa	2023-12-19	EPI_ISL_19038881	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,328	2,328	2,221
A/Ulaanbaatar/10735/2023	H3N2	Original Spa	2023-12-19	EPI_ISL_19038856	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,328	2,328	2,220
A/Ulaanbaatar/10734/2023	H3N2	Original Spa	2023-12-17	EPI_ISL_19038852	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,328	2,328	2,220
A/Dornogobi/10744/2023	H3N2	Original Spa	2023-12-19	EPI_ISL_19038847	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,326	2,326	2,219
A/Ulaanbaatar/10792/2023	H3N2	Original Spa	2023-12-20	EPI_ISL_19038846	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,316	2,325	2,221
A/Ulaanbaatar/10793/2023	H3N2	Original Spa	2023-12-07	EPI_ISL_19038802	Namutsatseg, Bayasgalan	National Center for Communicable Disa	2,316	2,316	2,209

Total: 40 viruses (321 sequences)



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Search

EPI_ISL ID: Virus name: EPI_SET ID:

Location: Asia / Mongolia

Collection: 2023-05-01 to Submission: to

Clade: all Lineage: Variant:

AA Substitutions: Nucl Mutations:

Text search:

VIRUS NAME	PASSAGE D	ACCESSION ID	COLLECTION	SUBMISSION	LENGTH	HOST	LOCATION	Ori
hCoV-19/Mongolia/UB-20240619/2024	Original	EPI_ISL_19015532	2024-03-05	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/UB-20240604/2024	Original	EPI_ISL_19015531	2024-02-28	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/UB-20240582/2024	Original	EPI_ISL_19015530	2024-02-26	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/UB-20240554/2024	Original	EPI_ISL_19015529	2024-02-21	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/UB-20240553/2024	Original	EPI_ISL_19015528	2024-02-21	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/Uvurkhangai-20240550/2024	Original	EPI_ISL_19015527	2024-01-27	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/Uvurkhangai-20240549/2024	Original	EPI_ISL_19015526	2024-01-29	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/Uvurkhangai-20240547/2024	Original	EPI_ISL_19015525	2024-01-25	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/Uvurkhangai-20240546/2024	Original	EPI_ISL_19015524	2024-01-25	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/Uvurkhangai-20240545/2024	Original	EPI_ISL_19015523	2024-01-25	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/Uvurkhangai-20240544/2024	Original	EPI_ISL_19015522	2024-01-22	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/Uvurkhangai-20240543/2024	Original	EPI_ISL_19015521	2024-02-18	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/Uvurkhangai-20240542/2024	Original	EPI_ISL_19015520	2024-02-18	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/UB-20240528/2024	Original	EPI_ISL_19015519	2024-02-13	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/UB-20240499/2024	Original	EPI_ISL_19015518	2024-02-08	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/UB-20240496/2024	Original	EPI_ISL_19015517	2024-02-05	2024-03-27	29,850	Human	Asia / Mongolia	I
hCoV-19/Mongolia/Tuv-0484/2024	Original	EPI_ISL_18924553	2024-02-07	2024-02-22	29,844	Human	Asia / Mongolia	I
hCoV-19/Mongolia/Tuv-0485/2024	Original	EPI_ISL_18924552	2024-02-07	2024-02-22	29,844	Human	Asia / Mongolia	I
hCoV-19/Mongolia/Tuv-0487/2024	Original	EPI_ISL_18924551	2024-02-07	2024-02-22	29,844	Human	Asia / Mongolia	I

Total: 242 viruses

A(H3N2)
40 viruses
(321sequences)

SARS-CoV-2
131viruses

Материал аргазүй



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Search

Accession ID: Virus name: complete high coverage
 Location: **Asia / Mongolia** Subtype: low coverage excl w/Patient status
 Collection: to Submission: to collection date compl
 Substitutions:

<input type="checkbox"/>	VIRUS NAME	PASSAGE DI	ACCESSION ID	COLLECTION	SUBMISSION	<input type="checkbox"/>	LENGTH	LOCATION	ORIGINATING LAB	SU
<input type="checkbox"/>	hRSV/A/Mongolia/UB-20240400/2024	Original	EPI_ISL_19093439	2024-01-26	2024-05-03	<input type="checkbox"/>	15,224	Asia / Mongolia	National Center for	▲
<input type="checkbox"/>	hRSV/A/Mongolia/Dund-Govi-202245683/2	Original	EPI_ISL_19093438	2022-03-05	2024-05-03	<input type="checkbox"/>	15,225	Asia / Mongolia	National Center for	
<input type="checkbox"/>	hRSV/A/Mongolia/UB-202236730/2022	Original	EPI_ISL_19093437	2022-02-15	2024-05-03	<input type="checkbox"/>	15,225	Asia / Mongolia	National Center for	
<input type="checkbox"/>	hRSV/A/Mongolia/UB-202249763/2022	Original	EPI_ISL_19093436	2022-03-11	2024-05-03	<input type="checkbox"/>	15,225	Asia / Mongolia	National Center for	
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<input type="checkbox"/>	hRSV/A/Mongolia/Tuv-202252843/2022	Original	EPI_ISL_19093434	2022-03-17	2024-05-03	<input type="checkbox"/>	15,225	Asia / Mongolia	National Center for	
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<input type="checkbox"/>	hRSV/A/Mongolia/Tuv-202252840/2022	Original	EPI_ISL_19093432	2022-03-17	2024-05-03	<input type="checkbox"/>	15,225	Asia / Mongolia	National Center for	
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<input type="checkbox"/>	hRSV/A/Mongolia/GAA-20240352/2024	Original	EPI_ISL_19093429	2024-01-23	2024-05-03	<input type="checkbox"/>	15,224	Asia / Mongolia	National Center for	
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<input type="checkbox"/>	hRSV/B/Mongolia/UB-20235501/2023	Original	EPI_ISL_19093425	2023-03-22	2024-05-03	<input type="checkbox"/>	15,226	Asia / Mongolia	National Center for	
<input type="checkbox"/>	hRSV/B/Mongolia/UB-20236279/2023	Original	EPI_ISL_19093424	2023-04-06	2024-05-03	<input type="checkbox"/>	15,226	Asia / Mongolia	National Center for	
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<input type="checkbox"/>	hRSV/B/Mongolia/UB-20236283/2023	Original	EPI_ISL_19093421	2023-04-06	2024-05-03	<input type="checkbox"/>	15,226	Asia / Mongolia	National Center for	
<input type="checkbox"/>	hRSV/B/Mongolia/UB-20240289/2024	Original	EPI_ISL_19093420	2024-01-16	2024-05-03	<input type="checkbox"/>	15,226	Asia / Mongolia	National Center for	
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Total: 100 viruses

<< < 1 2 > >>

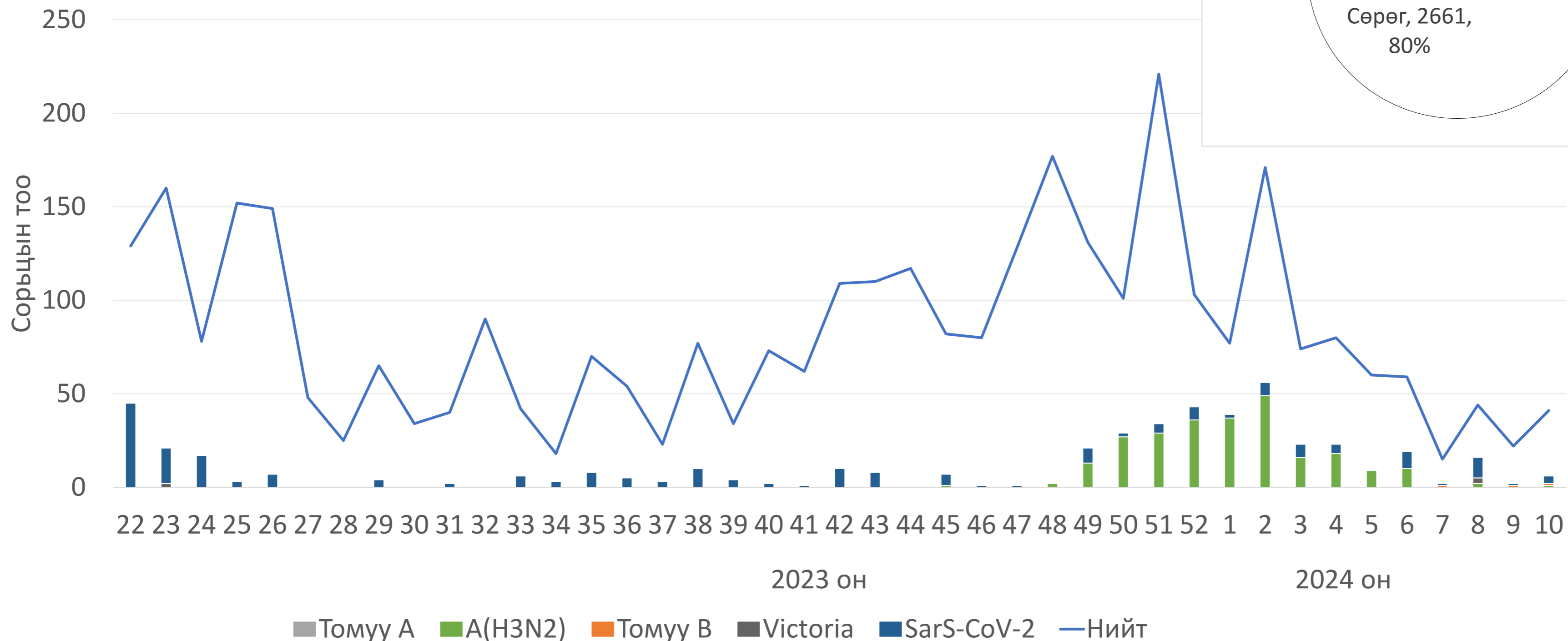
Important note: In the [GISAID EpiFlu™ Database Access Agreement](#), you have accepted certain terms and conditions for viewing and using data regarding influenza viruses. To the extent the Database contains data relating to non-influenza viruses, the viewing and use of these data is subject to the same terms and conditions, and by viewing or using such data you agree to be bound by the terms of the [GISAID EpiFlu™ Database Access Agreement](#) in respect of such data in the same manner as if they were data relating to influenza viruses.

A3CB 24 viruses

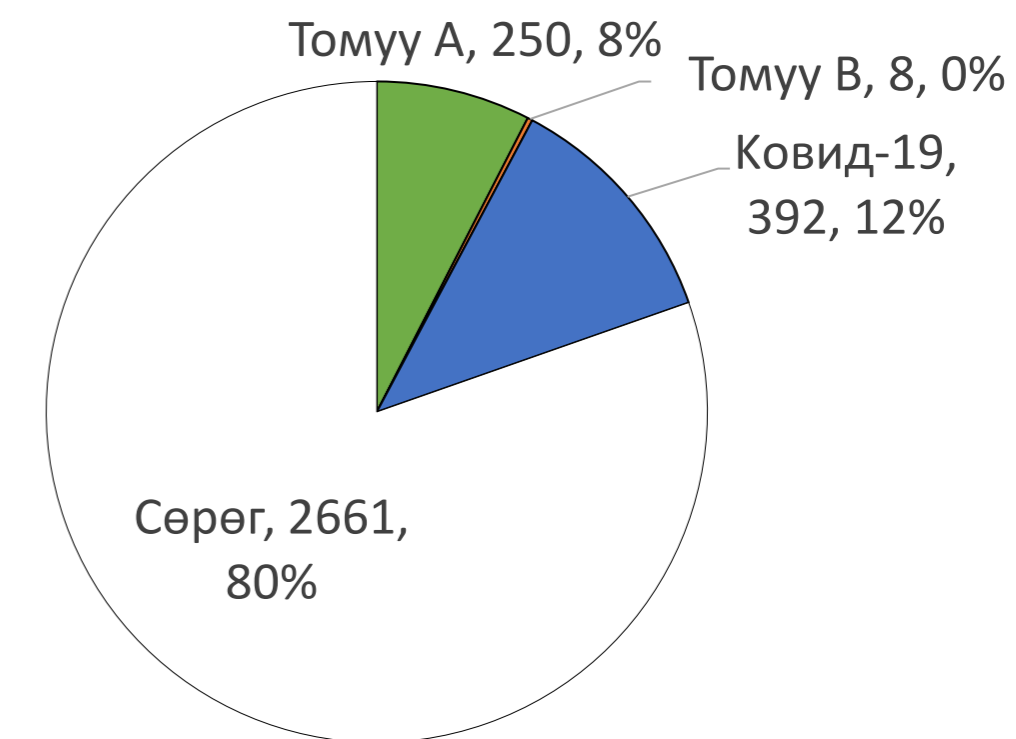
Үр дүн: Томуу ба SARS-CoV-2-ийн илрэлт



Томуу, SarS-CoV-2 илрэлтийг эпидемиологийн долоо хоногоор



Томуу, SARS-CoV-2 илэрсэн дүн



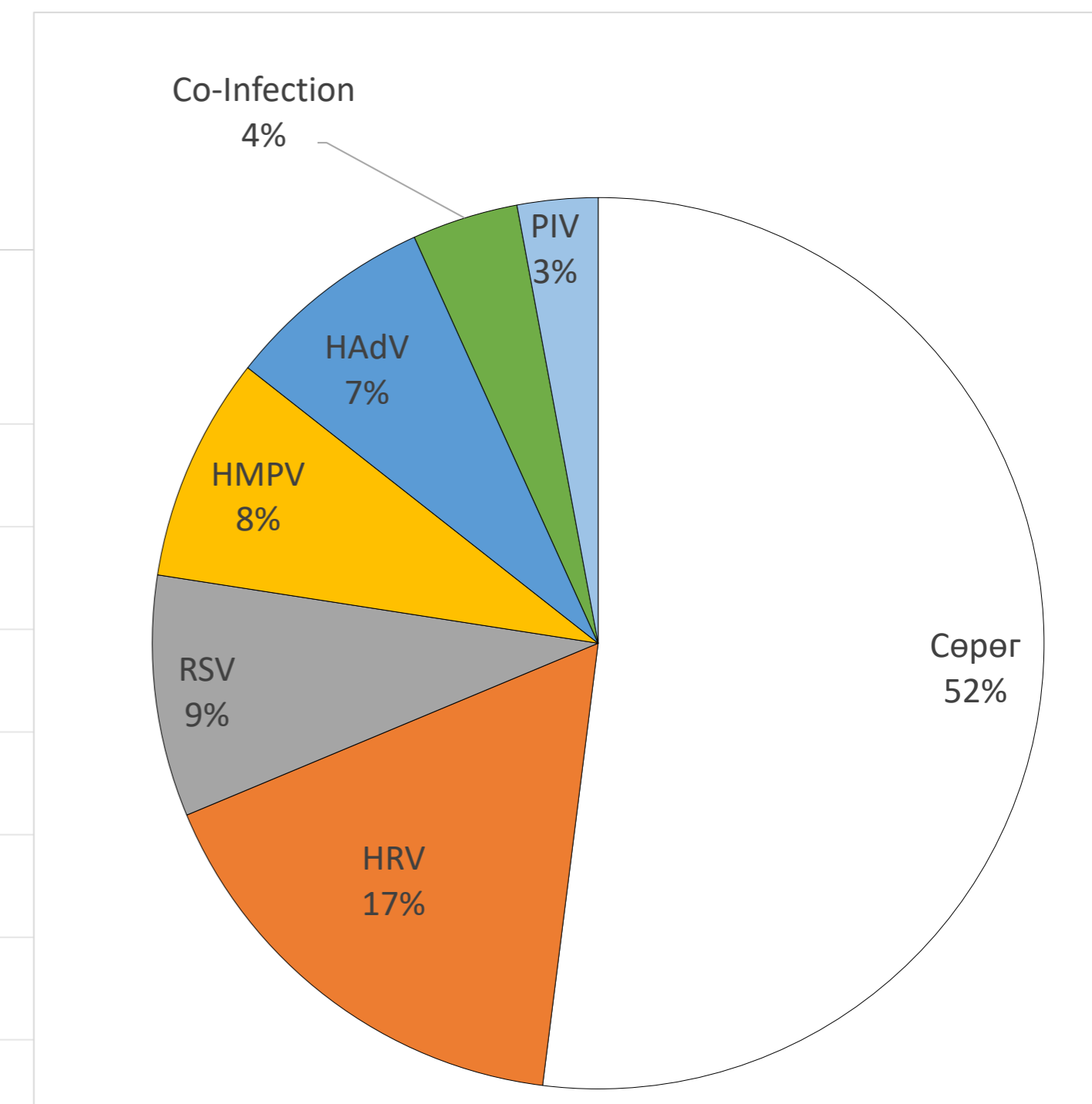
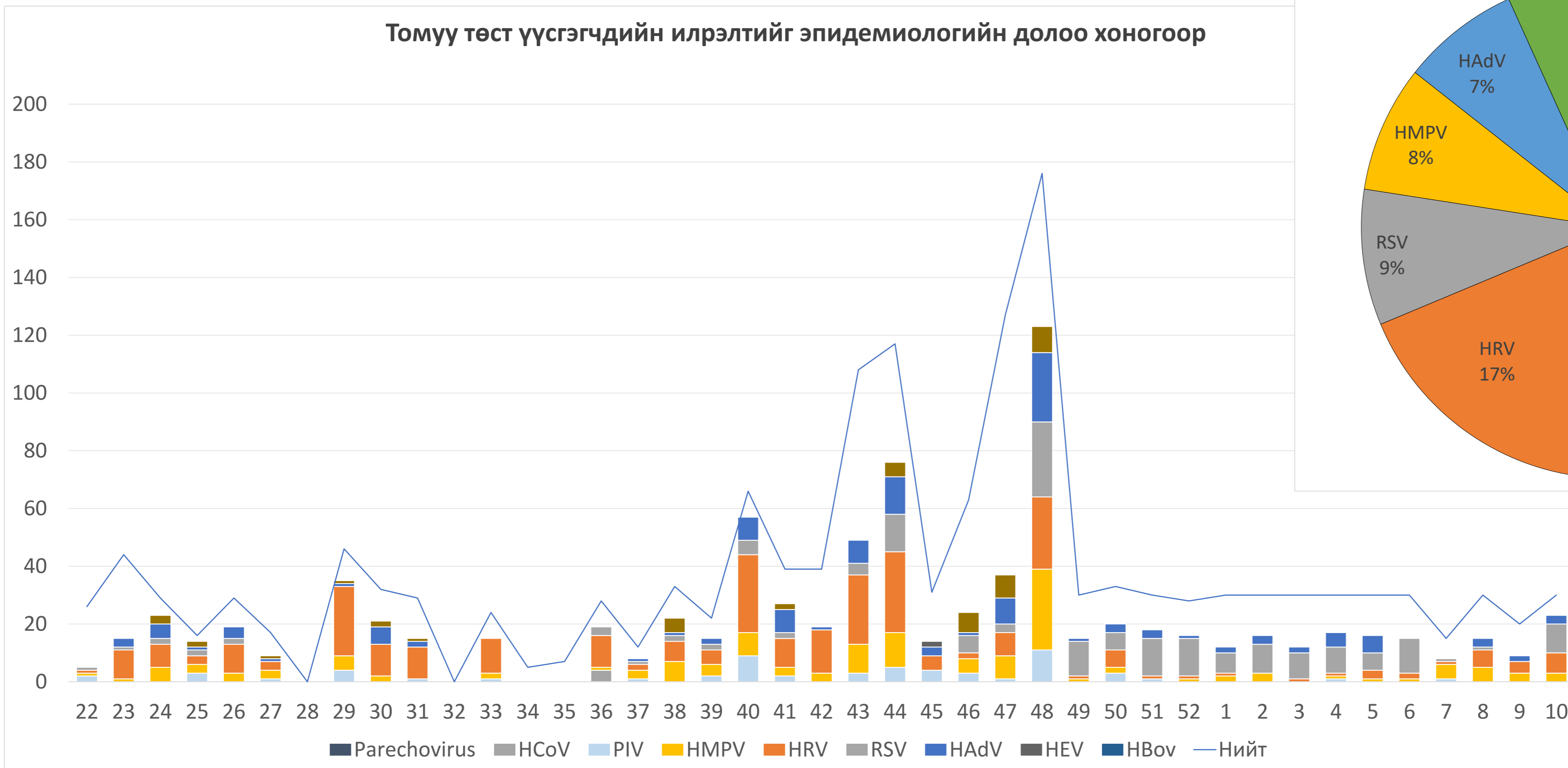
Үр дүн: Томуу, томуу төст үүсгэгчид



ХАЛДВАРТ ӨВЧИН СУДЛАЛЫН
ҮНДЭСНИЙ ТӨВ

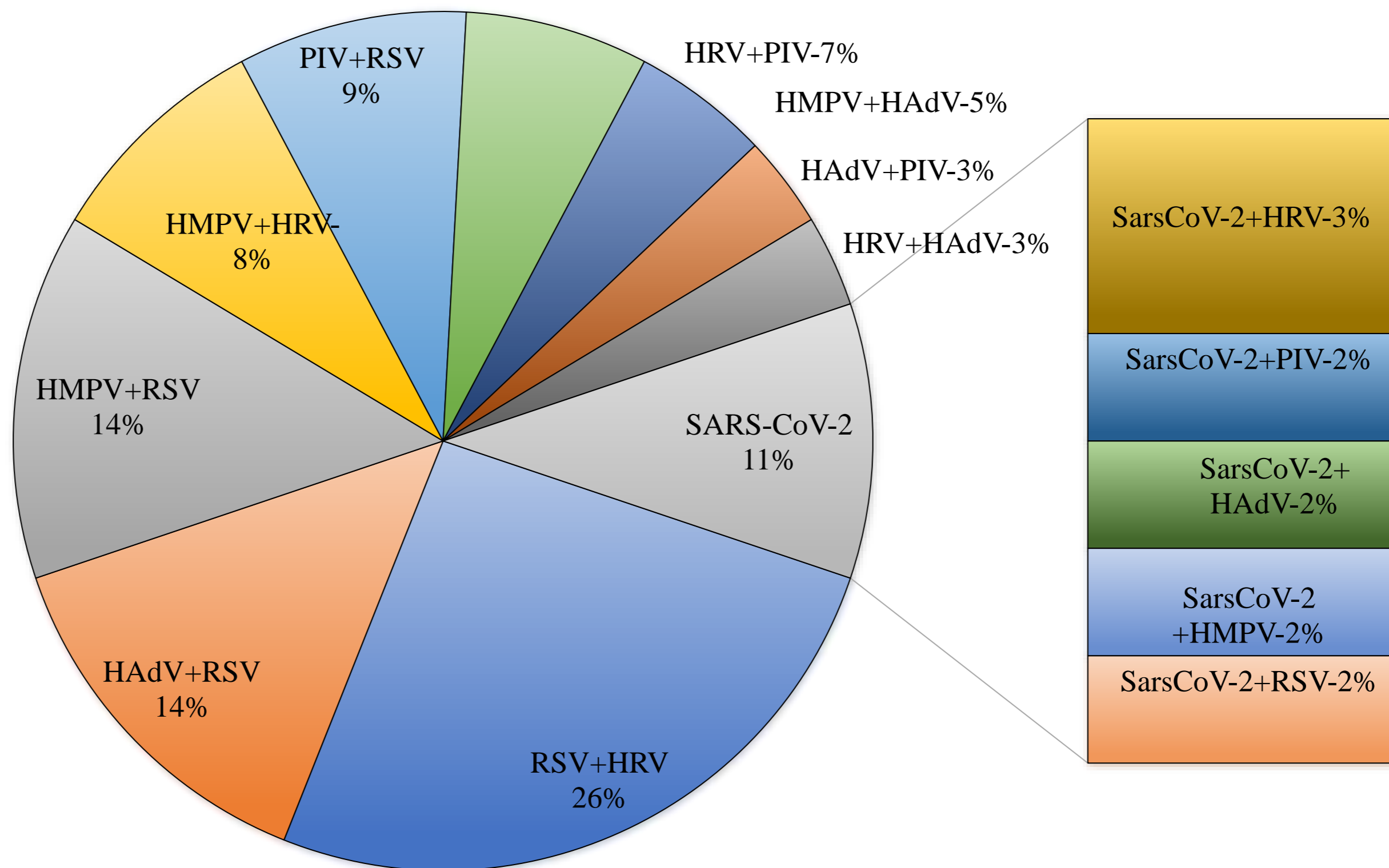
1508
(56.8%)

Томуу төст үүсгэгчдийн илрэлтийг эпидемиологийн долоо хоногоор





Томуу төст үүсгэгчдийн хавсарсан халдвар N=60



Үр дүн: ЦНСУ тодорхойлсон А(Н3N2)



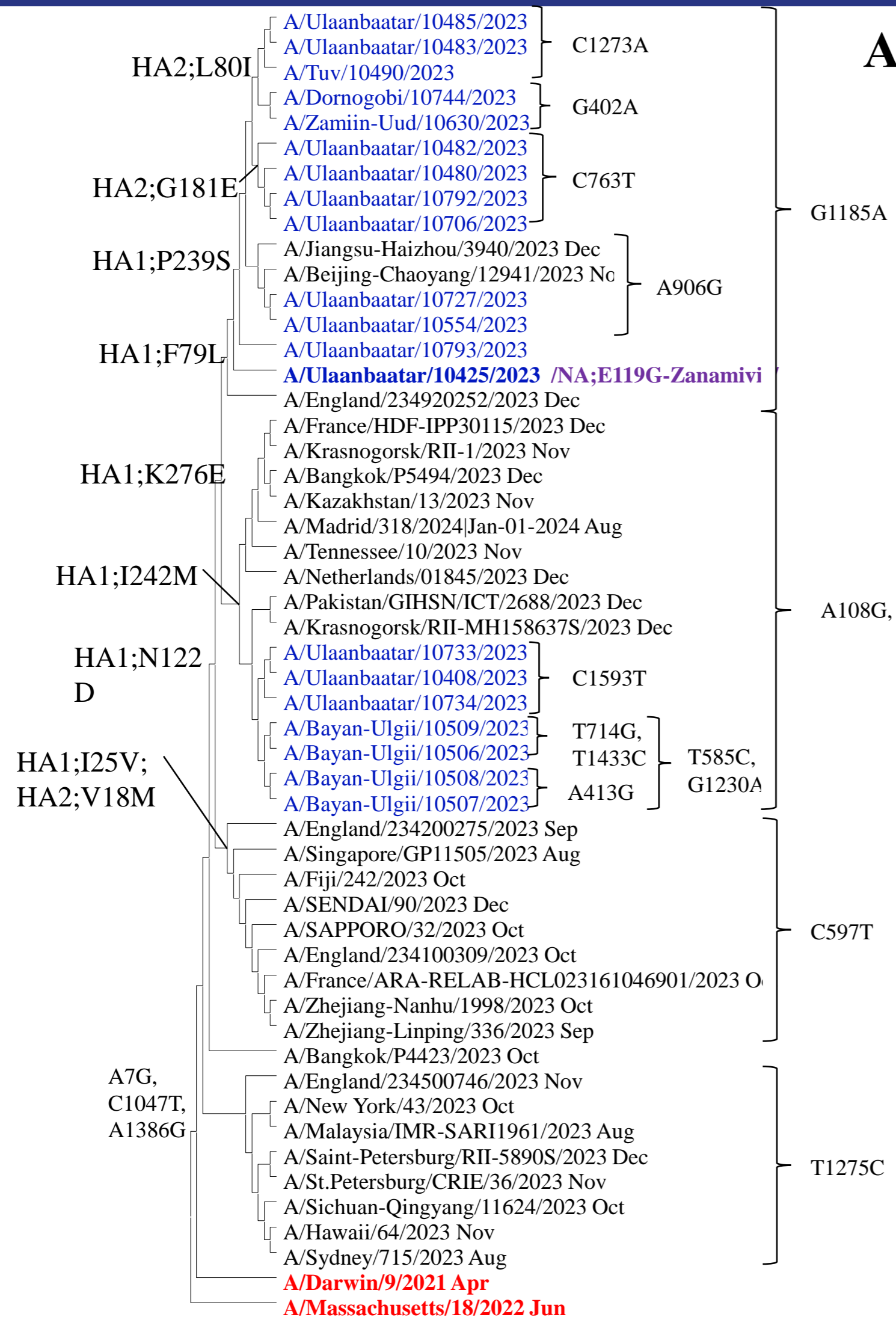
				2a1b.2a.											2024.07.04
				2a		2a.3a.1					2b		HA		
				G.1		J		J.2			G.2.2				
NIID-ID	Strains	Passage History	Sample date	Darwin/6/21 Cell No.113	Darwin/9/21 Egg No.121	Massachusetts/18/2022 Cell No.132	Thailand/8/2022 Egg No.121	KANAGAWA/IC2346/2023 Cell No.111	Kanagawa/IC2346/2023 Egg No.121	Kanagawa/IC2346/2023 Egg No.122	Kanagawa/ZC2201/2022 Cell No.53	Kanagawa/ZC2201/2022 Egg No.131	New Clade	Subclade	a.a. change*1
REF.Ag															
20/21 - 80	A/Darwin/6/2021	SIAT 2 +hCK2		640	160	160	160	160	160	40	160	160	G.1		S219S/P(20%)
20/21 - 76	A/Darwin/9/2021	E3/E1		640	320	160	320	320	320	80	320	320	G.1		
22/23 - 124	A/Massachusetts/18/2022	S3 +hCK1		320	80	320	640	320	160	80	160	160	J		
22/23 - 253	A/Thailand/8/2022	E3/SpE1		1280	160	320	640	640	320	320	640	320	J.2		V182I, F195Y
23/24 - 307	3 A/KANAGAWA/IC2346/2023	hCK 0 +2	2023/12/27	160	40	160	160	320	160	160	40	80	J.2	S145N*	
23/24 - 523	A/Kanagawa/IC2346/2023	E2/E6	2023/12/27	320	80	160	320	640	640	320	320	160	J.2	S145N*	N190I
22/23 - 63	22 A/KANAGAWA/ZC2201/2022	hCK 0 +2	2022/12/27	80	80	80	80	40	80	20	320	320	G.2.2	S262N, R33Q, D101E	
22/23 - 187	A/Kanagawa/ZC2201/2022	SpE3/SpE1	2022/12/27	80	80	80	80	160	320	40	320	320	G.2.2	S262N, R33Q, D101E	
TEST.Ag															
23/24 - 860	A/Ulaanbaatar/727/2024	C 2 +hCK1	2024/03/18	160	80	160	320	320	160	160	160	160	J.2		
23/24 - 861	A/Ulaanbaatar/734/2024	C 2 +hCK1	2024/03/21	160	40	80	160	320	160	160	80	80	J.2		
23/24 - 864	A/Ulaanbaatar/1107/2024	C 1 +hCK1	2024/05/16	160	40	80	160	320	160	160	80	80	J.2		
23/24 - 852	23 A/Bayankhongor/10223/2023	C 1 +hCK1	2023/11/23	320	80	320	640	320	160	160	160	160	J.1		
23/24 - 853	A/Dornogobi/10744/2023	C 1 +hCK1	2023/12/19	320	80	160	320	320	160	160	160	160	J.2		
23/24 - 866	A/Zamiin-Uud/33/2024	C 2 +hCK1	2024/01/04	160	80	160	160	320	160	160	160	80	J.2		
23/24 - 857	A/Ulaanbaatar/10485/2023	C 1 +hCK1	2023/12/05	160	80	80	320	320	160	160	160	80	J.2		

Үр дүн: ЦНСУ тодорхойлсон В/Victoria



NIID-ID	Strains	Passage History	Sample date	1A.3a.2							1A.3		HI test date:2024/8/1		
				C			C.5.6		C.5.7		A.3.2	Clade (new)	Clade	subclade	a.a.change
				Austria /1359417 /21 Cell No.122	Austria /1359417 /21 Egg No.132	Austria /1359417 /21 (BVR-26) NIID-2022-101	KANAGAWA /IC2360/24 Cell No.131	Kanagawa /IC2360/24 Egg No.151	TOKYO /23150/23 Cell No.121	Tokyo /23150/23 Egg No.142	Washington /02/19 Cell No. 121				
REF. Ag.															
21/22 - 32	B/Austria/1359417/2021	S1C4/C2 +hCK1		1280	640	160	640	160	640	320	80	C	1A.3a.2	-	G141G/R
20/21 - 54	B/Austria/1359417/2021	E3 +1		640	640	160	320	160	320	320	40	C	1A.3a.2	-	
20/21 - 137	B/Austria/1359417/2021 BVR-26	E3/D9/SpE1/E6		320	640	1280	160	320	160	1280	40	C	1A.3a.2	-	G141R
23/24 - 520	B/KANAGAWA/IC2360/2024	hCK0+2	2024/02/13	1280	640	160	1280	80	640	320	80	C.5.6	1A.3a.2	-	
23/24 - 642	B/Kanagawa/IC2360/2024	E2/E6	2024/02/13	320	640	1280	160	320	160	1280	80	C.5.6	1A.3a.2	-	G141R
23/24 - 128	B/TOKYO/23150/2023	MDCK 2 +hCK2	2023/09/19	1280	640	160	1280	160	1280	320	80	C.5.7	1A.3a.2	-	
23/24 - 553	B/Tokyo/23150/2023	E2/E6	2023/09/19	320	640	1280	160	320	160	1280	40	C.5.7	1A.3a.2	-	G141R
18/19 - 1505	B/Washington/02/2019	C 2 +hCK1		80	80	< 10	40	< 10	40	20	640	A.3.2	1A.3	-	G133R
TEST Ag.															
23/24 - 854	B/Gobi-Altai/1136/2024	C 1 +hCK1	2024/05/20	1280	640	320	1280	160	1280	320	80	C.5.7	1A.3a.2	-	-
23/24 - 859	B/Ulaanbaatar/653/2024	C 2 +hCK1	2024/03/12	1280	640	320	1280	160	1280	320	80	C.5.7	1A.3a.2	-	-
23/24 - 862	B/Ulaanbaatar/956/2024	C 1 +hCK1	2024/04/25	1280	640	320	1280	160	1280	320	80	C.5.7	1A.3a.2	-	-
23/24 - 863	B/Ulaanbaatar/1035/2024	C 1 +hCK1	2024/05/02	1280	640	320	1280	160	1280	320	80	C.5.7	1A.3a.2	-	-
23/24 - 858	B/Ulaanbaatar/567/2024	C 2 +hCK1	2024/02/23	1280	640	160	1280	160	640	320	80	C.5.7	1A.3a.2	-	-
23/24 - 855	B/Khovd/877/2024	C 2 +hCK1	2024/04/03	640	640	160	1280	160	640	320	80	C.5.7	1A.3a.2	-	-
23/24 - 856	B/Tuv/602/2024	C 2 +hCK1	2024/02/29	640	640	160	640	80	640	320	80	C.5.7	1A.3a.2	-	L144L/P(39%)

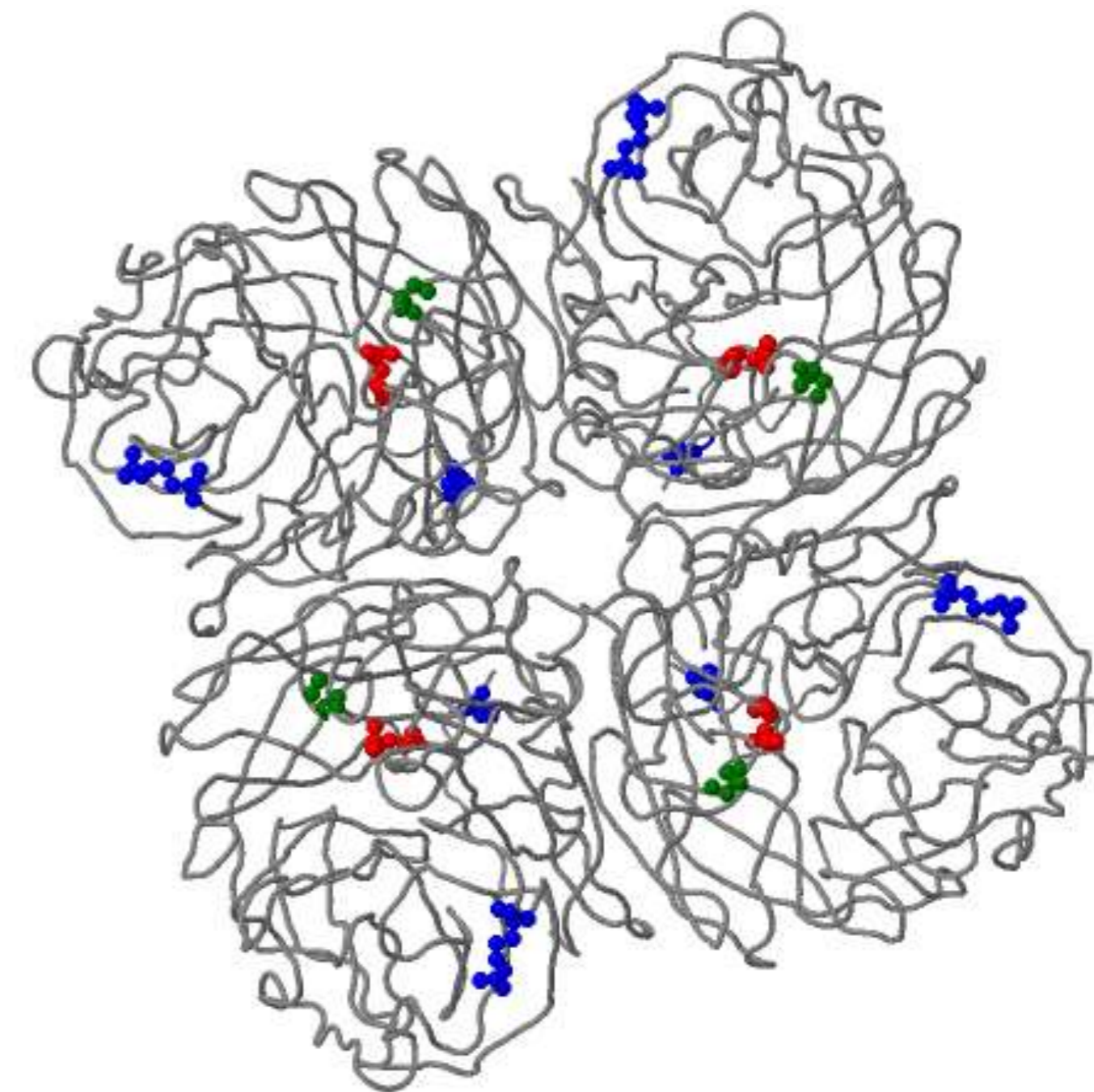
Үр дүн: NGS A(H3N2)



A(H3N2)

3C.2a1b.2a

3C.2a1b.2a.2a.3a.1

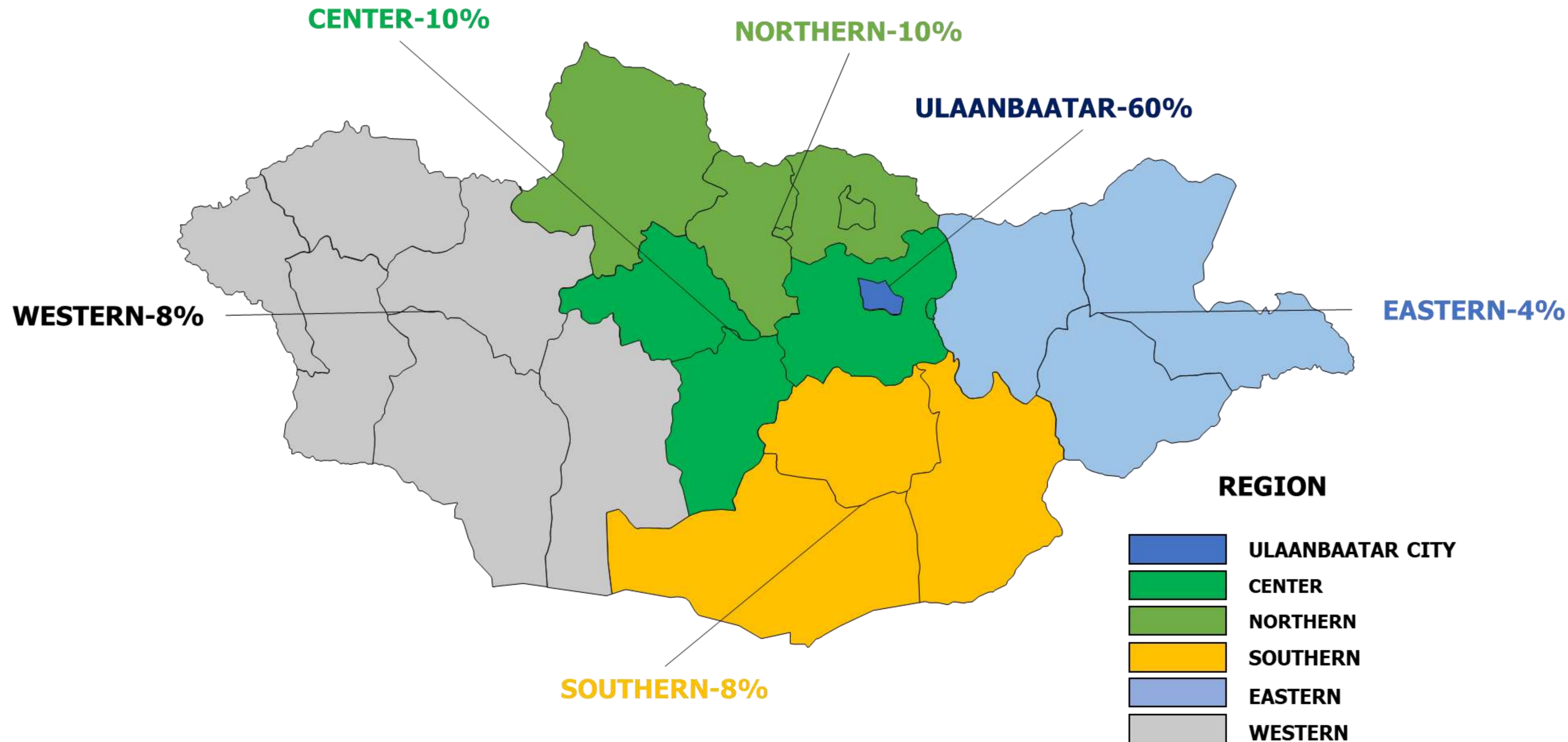


FluSurver-JSmol

Улаанбаатар хотын *A/Ulaanbaatar/10425/2023* омог нь NA гений хэсэгт **E119G** мутаци үүссэн байгаа нь Zanamivir эмд тэсвэржилт үүсгэдэг мутаци илэрсэн.



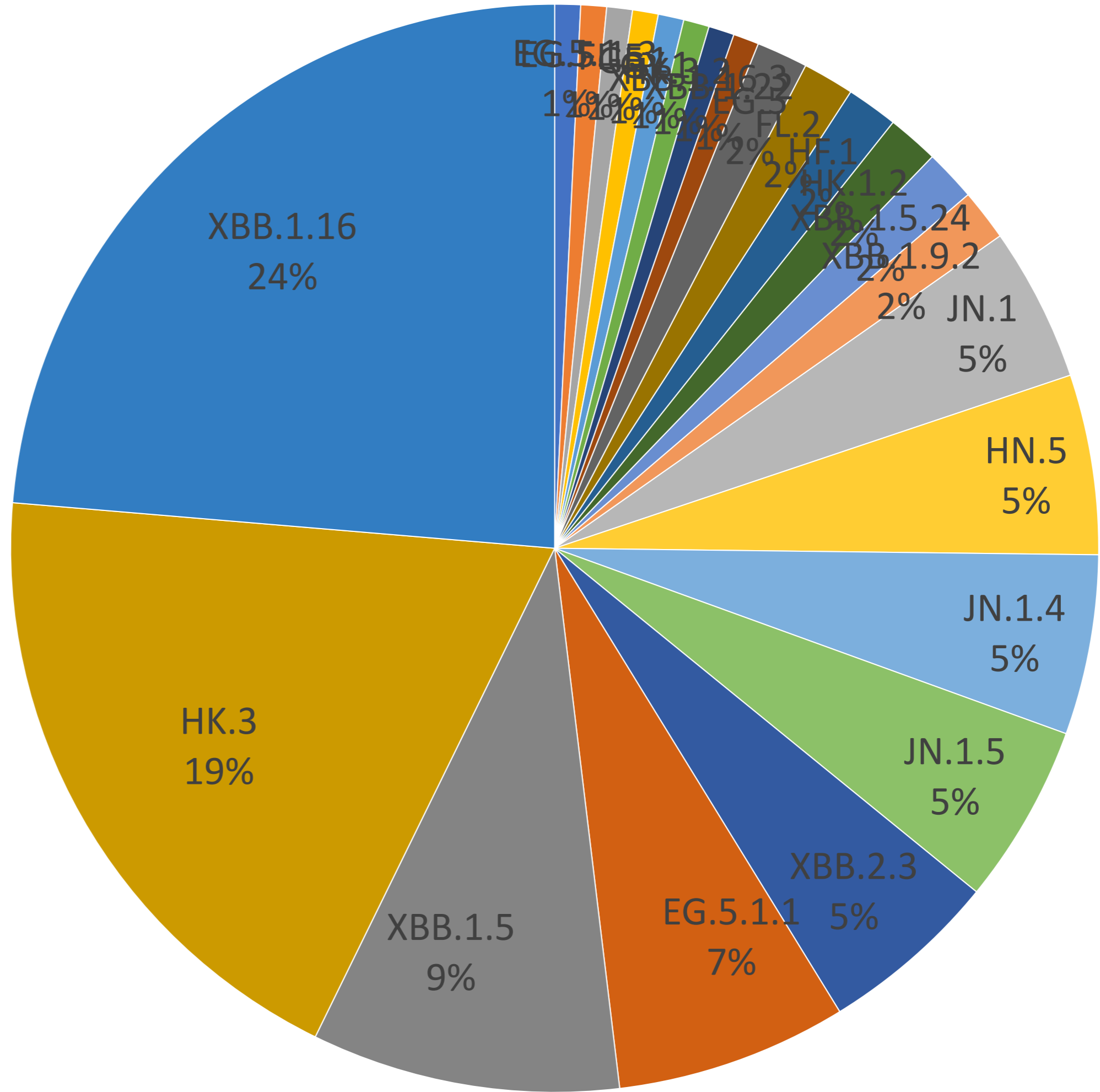
Сорьцын тоо (n=131)



Үр дүн: NGS SARS-CoV-2



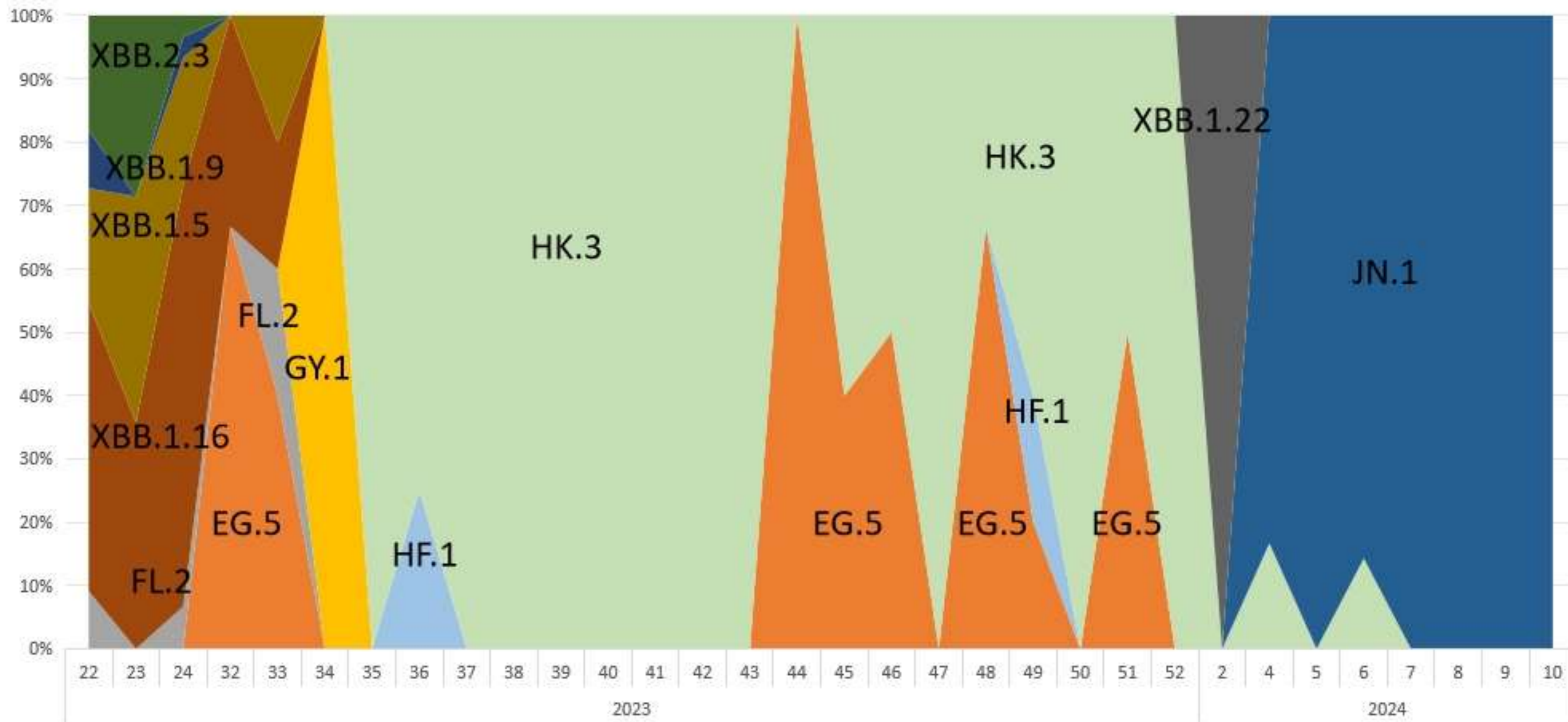
SarS-CoV-2 вирусийн панголинийжууд N=23

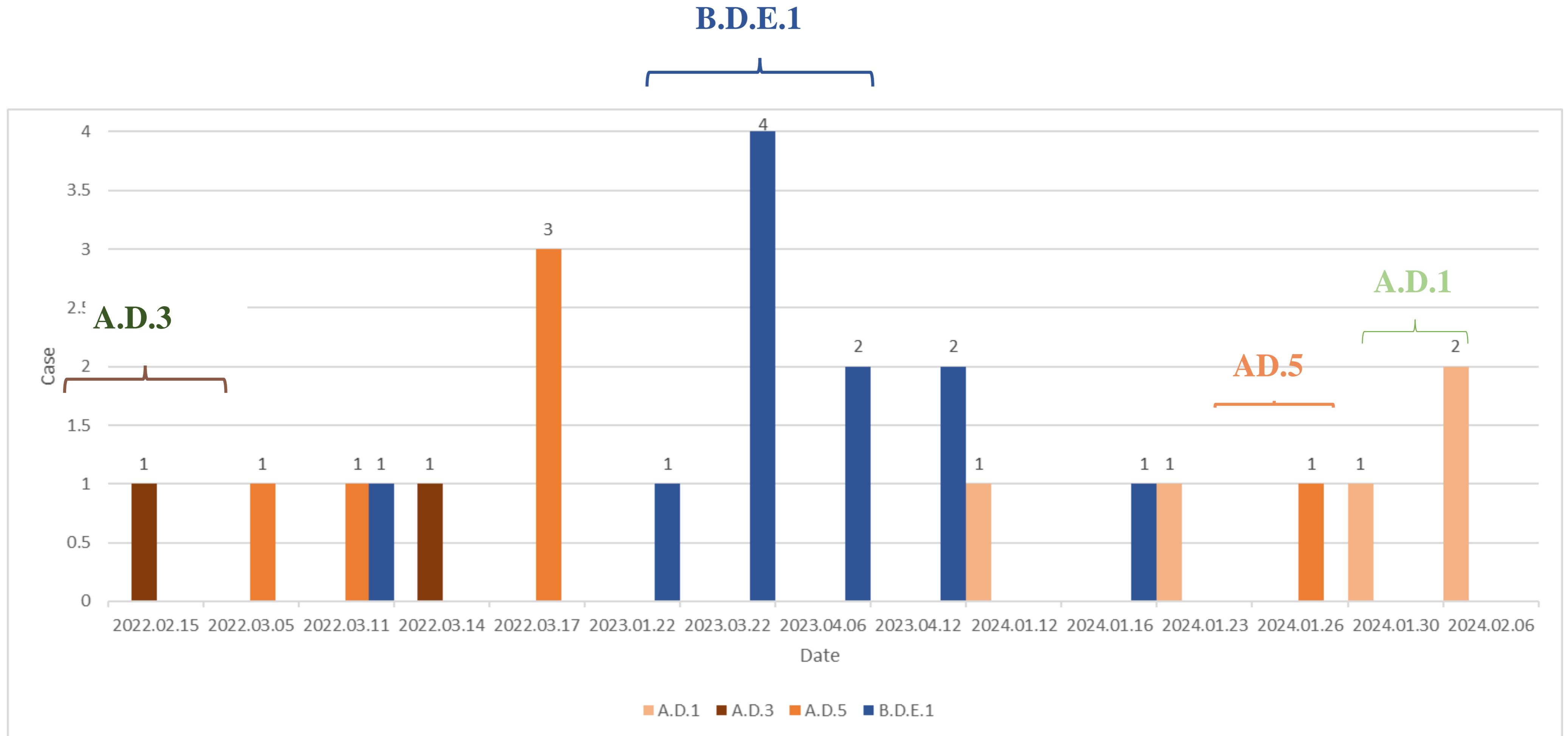


Үр дүн: NGS SARS-CoV-2



Монголд илэрсэн SarS-CoV-2 хувилбар эпидемиологийн 7 хоногоор





- АЗЦХ-ын шалтгаанаар эмнэлэгт хандсан хүмүүсийн тал хувьд нь ЭМГЭГ төрүүлэгч илэрч, SARS-CoV-2, Риновирус, АЗСВ халдвар давамгайлж байна. Томуугийн вирус болон SARS-CoV-2 нь удмын шинэ бүлгүүдэд хувьсаж байна.

Талархал

Энэ судалгааг хийхэд тусалцаа үзүүлсэн дараах байгууллагуудад талархал илэрхийлье



**АНХААРАЛ ХАНДУУЛСАНД
БАЯРЛАЛАА**