

№439, 13-dekabr, 2021 y.

**COVID
19**

COVID-19 ga qarshi vaksinalarning
ishlanmalari bo'yicha

DAYJEST

O'zbekiston Respublikasi Innovatsion rivojlanish vazirligi huzuridagi
Ilmiy-texnik axborot markazi











Toshkent-2021

Jahonda pandemiya bilan bog'liq vaziyat

2021 y. 12-dekabr holatiga ko'ra

Umumiy zararlanganlar soni	-	269 978 539	(+ 509 402)
Sog'ayganlar soni	-	242 732 017	(+ 440 237)
Vafot etganlar soni	-	5 317 684	(+ 5 770)

Mamlakatlar bo'yicha bemorlar soni

	AQSh	-	50 762 671	(+ 57 414)
	Hindiston	-	34 690 510	(+ 7 774)
	Braziliya	-	22 188 179	(+ 3 355)
	Buyuk Britaniya	-	10 771 444	(+ 54 073)
	Rossiya	-	9 986 967	(+ 30 288)
	Turkiya	-	9 022 223	(+ 19 255)
	Fransiya	-	8 214 844	(+ 53 720)
	Germaniya	-	6 501 279	(+ 37 542)
	Eron	-	6 152 524	(+ 1 681)
	O'zbekiston	-	195 747	(+ 223)

Manba: <https://www.worldometers.info/coronavirus/>



O'zbekistonda COVID-19 qarshi vaksinatsiya bo'yicha hisobot

2021 y. 11-dekabr holatiga ko'ra

Hududlar	Jami emlanganlar soni	Bir kunda emlanganlar soni
Qoraqalpog'iston Respublikasi	1 892 198	5 873
Andijon viloyati	3 426 514	19 444
Buxoro viloyati	2 049 852	9 048
Jizzax viloyati	1 348 396	4 540
Qashqadaryo viloyati	2 727 935	16 264
Navoiy viloyati	1 248 509	2 153
Namangan viloyati	3 513 750	15 470
Samarqand viloyati	4 070 792	47 950
Surxondaryo viloyati	2 903 619	20 396
Sirdaryo viloyati	817 732	2 758
Toshkent viloyati	3 425 468	18 259
Farg'ona viloyati	3 953 778	22 554
Xorazm viloyati	2 199 324	10 837
Toshkent sh.	2 486 137	23 399
Jami	36 064 004	218 945

Manba: SSV matbuot kotibi // <https://t.me/ssvmatbuotkotibi>



JSST tomonidan baholash jarayonida COVID-19 ga qarshi vaksinlarning holati

2021 y. 10-dekabr holatiga ko'ra

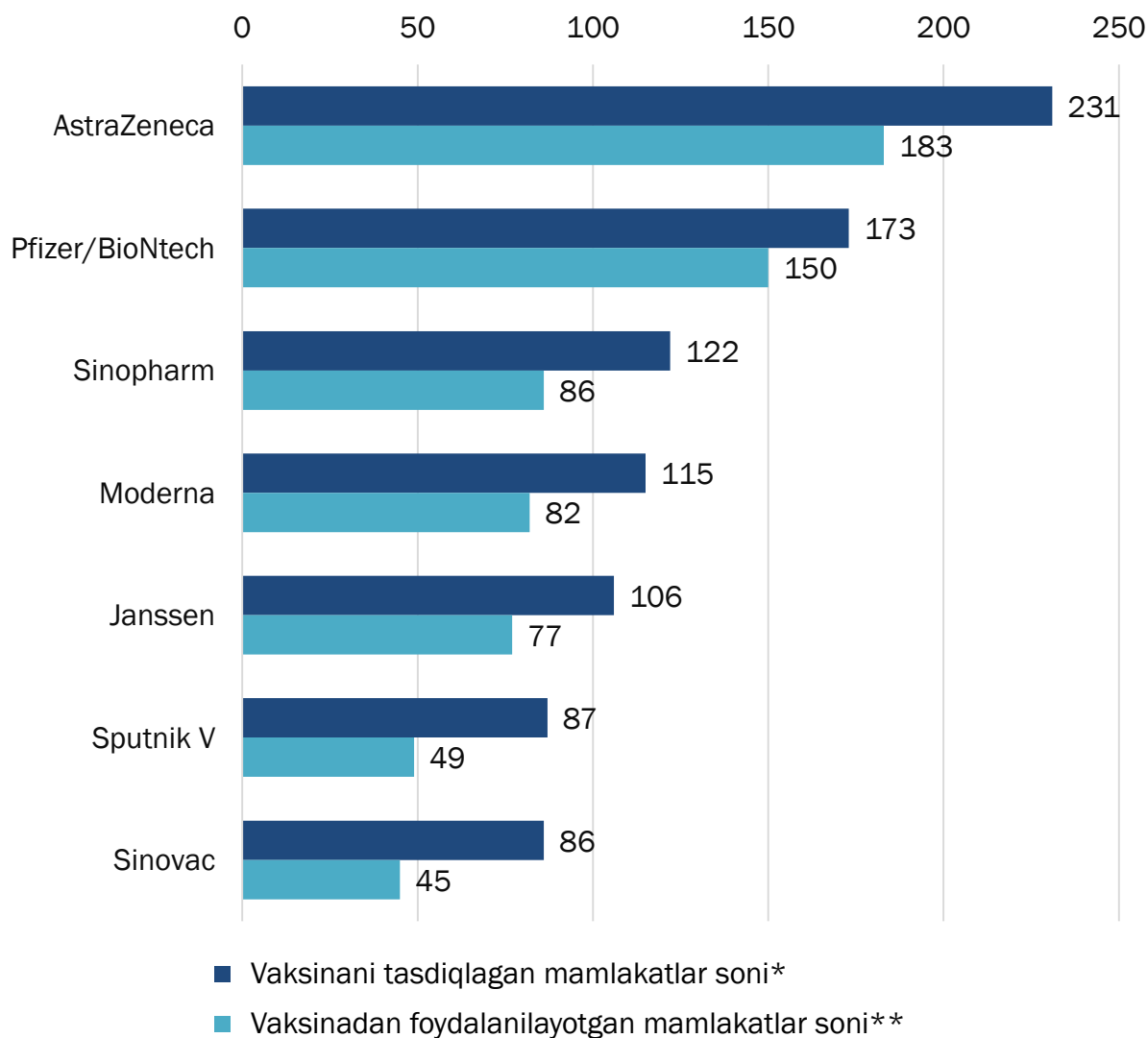
№	Ishlab chiqaruvchi	Vaksina nomi	Platforma	Arizalarni qabul qilish	Uchrashuv o'tkazish	Ma'lumotnomani ko'rib chiqish uchun qabul qilish	Baholash holati	Kutilayotgan chiqish sanasi
1	Pfizer	BNT162b2/COMIRNATY	mRNK	+	+	+	Yakunlangan	Tasdiqlangan 31.12.2020
2	AstraZeneca/University of Oxford	AZD1222	Recombinant replication defective chimpanzee adenovirus expressing surface glycoprotein SARS-CoV-2	+	+	+	Yakunlangan	Tasdiqlangan 15.02.2021
3	Janssen	Ad26.COV2.S	Recombinant vector vaccine against adenovirus type 26 (Ad26), incapable of replication, encoding Spike (S) protein (SARS-CoV-2)	+	+	+	Yakunlangan	Tasdiqlangan 12.03.2021
4	SK BIOscience - AstraZeneca/University of Oxford	AZD1222	=	+	+	+	Yakunlangan	Tasdiqlangan 16.04.2021
5	Serum institute of India	Covishield	Recombinant adenoviral vector ChAdOx1 encoding the Spike SARS-CoV-2 protein antigen	+	+	+	Yakunlangan	Tasdiqlangan 16.04.2021
6	Moderna	mRNA-1273	mRNA-based vaccine encapsulated in lipid nanoparticles	+	+	+	Yakunlangan	Tasdiqlangan 30.04.2021
7	Sinopharm / BIBP	SARS-CoV-2 Vaccine (Vero Cell), Inactivated (InCoV)	Inactivated, produced in Vero cells	+	+	+	Yakunlangan	Tasdiqlangan 07.05.2021
8	Sinovac	SARS-CoV-2 Vaccine (Vero Cell), Inactivated	Inactivated, produced in Vero cells	+	+	+	Yakunlangan	Tasdiqlangan 01.06.2021
9	Gamaleya nomidagi markaz	Sputnik V	COVID-19 vaccine based on human adenovirus vector	+	+	Rolling Review jarayoni davom etmoqda	Jarayon qayta ishga tushirildi	

Manba:

Status of COVID-19 Vaccines within WHO EUL // https://extranet.who.int/pqweb/sites/default/files/documents/Status_COVID_VAX_20Oct2021.pdf

Vaksinani tasdiqlagan va undan foydalanilayotgan mamlakatlar soni

2021 y. 10-dekabr holatiga ko'ra



Manbalar:

*Approved or Authorized Vaccines // <https://www.nytimes.com/interactive/2020/science/coronavirus-vaccine-tracker.html>

COVID-19 Vaccine Market Dashboard //

<https://www.unicef.org/supply/covid-19-vaccine-market-dashboard>

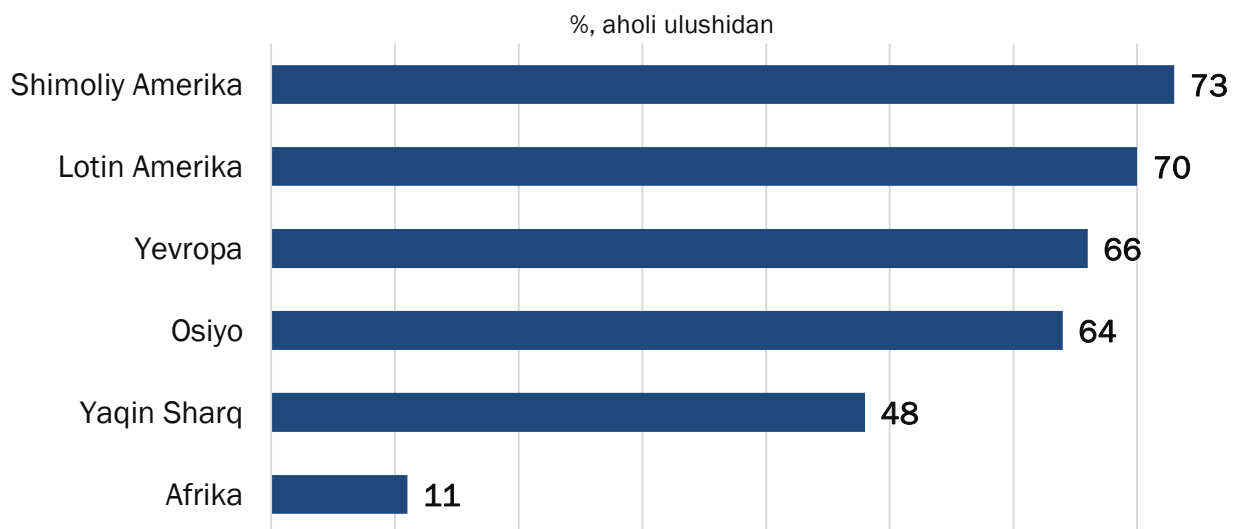
**Tracking Coronavirus Vaccinations Around the World //

<https://www.nytimes.com/interactive/2021/world/covid-vaccinations-tracker.html>

Mamlakatlar va kontinentlar kesimida COVID-19 ga qarshi emlanganlar soni

2021 y. 10-dekabr holatiga ko'ra

№	Davlatlar	Emlanganlar soni		Aholining umumiy sonida emlanganlarning ulushi	
		100 ta kishiga	Jami	Bitta doza bilan emlangan	To'liq emlangan
	Dunyo	108	8 310 166 073	57%	46%
1	BAA	221	21 548 528	99%	90%
2	Bruney	176	762 161	93%	83%
3	Kuba	253	28 677 318	90%	82%
4	Chili	221	41 811 078	89%	86%
5	Singapur	177	10 083 329	89%	88%
6	Portugaliya	175	17 999 356	88%	88%
7	Xitoy	184	2 574 931 000	88%	80%
8	Malta	195	978 775	87%	86%
9	Kambodja	175	28 843 614	86%	81%
10	Qatar	178	5 035 470	83%	78%



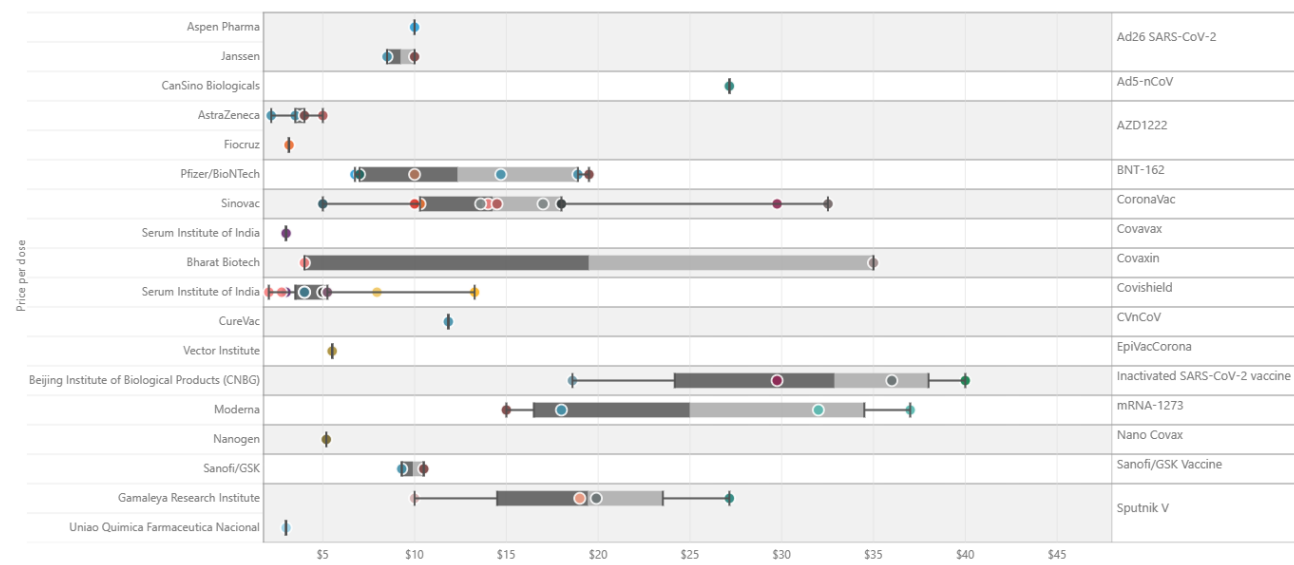
Manba:
Tracking Coronavirus Vaccinations Around the World // <https://www.nytimes.com/interactive/2021/world/covid-vaccinations-tracker.html>



COVID-19 ga qarshi vaksinalarning narxi

2021 y. 10-dekabr holatiga ko'ra

No	Vaksinaning ishlab chiqaruvchisi	Vaksinalarning narxi (bitta doza uchun)*
1	Pfizer	\$6,75-18,90
2	AstraZeneca/University of Oxford	\$2,19-5
3	Serum institute of India	\$3-13,27
4	Sinopharm	\$144,27 (2 ta doza uchun)
5	Sinovac	\$10,30-29,75
6	Moderna	\$15-37
7	Janssen	\$8,50-10
8	The Gamaleya National Center (Sputnik V)	\$11-19,90



Manba:

* COVID-19 Vaccine Market Dashboard //

[https://www.unicef.org/supply/covid-19-vaccine-market-](https://www.unicef.org/supply/covid-19-vaccine-market-dashboard?utm_source=facebook&utm_medium=organic&utm_campaign=coronavirus&fbclid=IwAR101804JupyKfUU1u6osTc-nNVGj7kiYDI8eJtiMUgjEIALGhYO3w0EE)

[dashboard?utm_source=facebook&utm_medium=organic&utm_campaign=coronavirus&fbclid=IwAR101804JupyKfUU1u6osTc-nNVGj7kiYDI8eJtiMUgjEIALGhYO3w0EE](https://www.unicef.org/supply/covid-19-vaccine-market-dashboard?utm_source=facebook&utm_medium=organic&utm_campaign=coronavirus&fbclid=IwAR101804JupyKfUU1u6osTc-nNVGj7kiYDI8eJtiMUgjEIALGhYO3w0EE)



Koronavirusning “Oмикron” shtammidan himoyalaniش uchun 41 baravar ko‘proq antitanalar kerak

Vaksina koronavirusning yangi Omicron shtammidan himoya qilish inson organizmida 41 barobar ko‘proq antitana ishlab chiqarishga yordam berishi kerak. Bu haqda Engelhardt nomidagi molekulyar biologiya instituti hujayra ko‘paytirish laboratoriyasi rahbari, professor, Rossiya Fanlar akademiyasining a‘zosi Petr Chumakov ma‘lum qildi [5].

Professorning tushuntirishicha, virus dozasi zararsizlantirish uchun Omicron Uxan shtammidan farqli o‘laroq 41-marta ko‘proq antitelalarni talab qiladi, chunki hali 32 ta mutatsiya bor va ulardan faqat 15 tasi boshqosimon antitelalar bilan ta‘sir o‘tkazish sohasida mavjud. Ya‘ni, virusning bu himoya orqali o‘tishi osonroq, ayniqsa, uzoq vaqt davomida emlanganlar uchun va antitanalar darajasi kamaydi, ammo xotira hujayralari hali ham saqlanib qolmoqda, shuning uchun immun tizimi hali ham infeksiyaga qarshi kurasha oladi [6].



Nikolay Kryuchkov, immunolog, “KEG” kontrakt tadqiqot kompaniyasi bosh direktori, f.f.n. so‘zlariga ko‘ra, “Omicron” neytrallashtiruvchi antikorlarning o‘rtacha geometrik titri delta shtammidan to‘rt baravar ko‘proq kerak. Bu kichik farq, demak, og‘ir kursdan bir joyda bir xil yo‘qotish bo‘ladi, lekin bu vaksinalarga bog‘liq. Jiddiylik nuqtai nazaridan samaradorlik 10-15% ga tushishi mumkin-, dedi u [7].

Yekaterinburg markazi “Vektor” rahbari Aleksandr Semenov ta‘kidlashicha, “Omicron” boshqa shtammlari ko‘ra uch barobar tezroq pnevmoniya olib kelishi mumkin. Agar ilgari infeksiyani yuqtirgan paytdan boshlab 10-11 kun davom etgan bo‘lsa, hozir atigi 3-5 kun davom etmoqda.

Bolalarda koronavirusning “Omicron” shtammining noodatiy alomati aniqlandi

Koronavirusning “Omicron” shtammi bilan kasallangan ba’zi bolalarda teri toshmasi paydo bo’lishi holatlari kuzatilishi mumkin. Bu haqda britaniyalik shifokor Devid Lloyd ma’lum qildi [8].

“Bolalar va kattalardagi “Omicron” shtammi belgilarida boshqa shtamlardan biroz farq bor. Bosh og’rig’i, ishtahani yo’qotish va charchoqqa qo’shimcha ravishda, bolalarda g’ayrioddiy toshma “Omicron” infeksiyasining o’ziga xos xususiyatidir”, dedi shifokor [9].



Lloydning so’zlariga ko’ra, COVID-19 bilan kasallangan katta yoshli bemorlarning faqat kichik guruhida toshmalar uchragan, ammo “Omicron” bilan kasallangan bolalarning 15 foizigacha g’ayrioddiy toshma paydo bo’ladi”.



Yaponiyada COVID-19 zarralari bilan aloqa qilganda nur sochuvchi niqob yaratildi

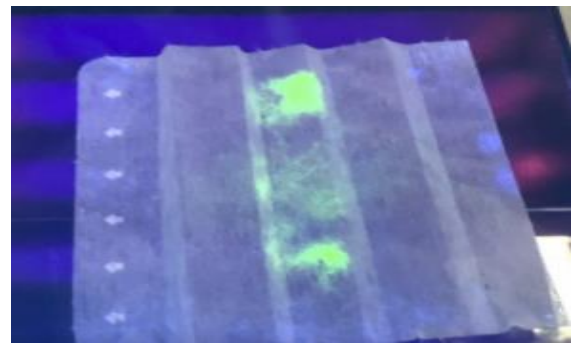
Kioto prefekturasi universiteti olimlari guruhi, agar koronavirus alomatlari bo'lsa, ultrabinafsha nurlar ta'sirida nur sochuvchi niqoblar ishlab chiqdi [10].



Ishlanma muassasa rahbari Yasuxiro Tsukamoto tomonidan boshqargan. Uning jamoasi tomonidan tuyaqushlar organizmi begona jismlarni zararsizlantiruvchi bir necha turdagi antitanalarni ishlab chiqarishga qodir ekanligini aniqladi. Fevral oyida olimlar laboratoriyadagi tuyaqushlar tanasiga COVID-19 ning faolsizlangan zarralarini

yubordilar. Tajriba natijasida mutaxassislar qushlar qo'ygan tuxumlardan ko'p miqdorda antitelalar ajratib olishdi [11].

Jamoa yuz niqobi ichiga joylashgan maxsus filtr ishlab chiqdi. "Filtrni olib tashlash va qo'yilgan tuyaqush tuxumidan koronavirusga antitelalar bo'lgan fluouescent bo'yoq bilan purkash mumkin. Agar virus mavjud bo'lsa, filtr ultrabinafsha spektrda nur sochadi", - deya qo'shimcha qildi Tsukamoto [12].



Yaponiyalik mutaxassislar o'n kun davomida koronavirusga chalingan 32 nafar bemor bilan test o'tkazdi. Ular tadqiqot ishtirokchilari foydalangan niqoblar ultrabinafsha nurlanishiga reaksiyaga kirishishini aniqladilar. Keyinchalik jamoa tajribani 150 a'zoga kengaytirdilar. Tajribalar niqoblarning samaradorligini tasdiqladi. "Kelajakda biz

niqobni har kim foydalanishi mumkin bo'lgan oddiy sinov to'plamiga aylantirmoqchimiz", dedi Tsukamoto.

1. Reported Cases and Deaths by Country, Territory, or Conveyance // <https://www.worldometers.info/coronavirus/> (12.12.2021)
2. Approved or Authorized Vaccines // <https://www.nytimes.com/interactive/2020/science/coronavirus-vaccine-tracker.html> (10.12.2021)
3. COVID-19 Vaccine Market Dashboard // <https://www.unicef.org/supply/covid-19-vaccine-market-dashboard> (10.12.2021)
4. Tracking Coronavirus Vaccinations Around the World // <https://www.nytimes.com/interactive/2021/world/covid-vaccinations-tracker.html> (10.12.2021)
5. Профессор: для защиты от "Омикрона" нужно в 41 раз больше антител // <https://ura.news/news/1052521488> (10.12.2021)
6. Антител для защиты от омикрона нужно в 41 раз больше // <https://www.teleport2001.ru/news/2021-12-10/139388-antitel-dlya-zaschity-ot-omikrona-nuzhno-v-41-raz-bolshe.html> (10.12.2021)
7. Для защиты от "омикрона" нужно в 41 раз больше антител // <https://astv.ru/news/society/2021-12-10-dlya-zashity-ot-omikrona-nuzhno-v-41-raz-bol-she-antitel> (10.12.2021)
8. Назван необычный симптом омикрон-штамма у детей // <https://m.5-tv.ru/amp/news/368677/nazvan-neobychnyj-simptom-omikronstamma-udetej/> (10.12.2021)
9. В Британии назвали необычный симптом омикрон-штамма у детей // <https://www.rbc.ru/rbcfreenews/61b02e929a79471b7dec66f1> (10.12.2021)
10. Japan develops glowing masks to detect coronavirus // <https://www.aa.com.tr/en/asia-pacific/japan-develops-glowing-masks-to-detect-coronavirus/2441988> (10.12.2021)
11. В Японии создана маска, которая светится при контакте с частицами COVID-19 // https://tsn.ua/ru/nauka_it/v-yaponii-sozdana-mask-a-kotoraya-svetitsya-pri-kontakte-s-chasticami-covid-19-1928515.html (10.12.2021)
12. Japan develops glowing masks to detect coronavirus // <https://www.aa.com.tr/en/asia-pacific/japan-develops-glowing-masks-to-detect-coronavirus/2441988> (10.12.2021)

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Ilmiy-texnik axborot markazi

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