

Supplementary Table 1. The most popular keyword combinations, according to Yandex, in which the words “smell” and “levofloxacin” may occur.

Keyword	Possible combination
Smell	what organ is responsible for smell?
	how does the sense of smell work?
	what is smell
	what is the name of smell and taste?
	What can you smell to test your sense of smell?
	what diseases cause loss of smell
	how to develop a human sense of smell
	lost sense of smell without fever
	the sense of smell sometimes disappears then appears during the day
	I lost my sense of smell and taste what to do
	when is the sense of smell lost?
	reasons for the loss of smell and taste in people
	how to restore your sense of smell after covid
	smell recovery,
how to treat loss of smell,	
Levofloxacin	and levofloxacin is most often found in such combinations:
	what is the difference between ciprofloxacin and levofloxacin
	what is the difference between levofloxacin and tavanic
	which is better, levofloxacin or ciprofloxacin
	levofloxacin or amoxiclav, which is better
	tavanic or levofloxacin which is better
	levofloxacin compatibility with alcohol
	tavanic or levofloxacin
	4th generation fluoroquinolones in urology
	antibiotics for covid19
	how to buy antibiotics without a prescription
	urological antibiotics for men
ofloxacin for prostatitis treatment regimen	

Supplementary Table 2. Statistics of smell-related queries in Russia

Region of the Russian Federation	Population. people	Total (new cases)	Maximum per week (new cases)	Total (queries)	Maximum per week (queries)	Queries/people
Altai Territory	2 296 773	15954	1252	98146	11064	0.04
Amur Region	781 850	20511	1165	29495	2562	0.04
Arkhangelsk Region	1 128 099	34158	1593	53708	3032	0.05
Astrakhan Region	997 685	27008	1297	38105	1954	0.04
Belgorod Region	1 543 087	30201	1304	81706	7359	0.05
Bryansk Region	1 183 228	31714	1411	76022	5101	0.06
Vladimir Region	1 343 194	25969	1307	96504	5417	0.07
Volgograd Region	2 476 100	47180	1927	123163	9252	0.05
Vologda Region	1 151 751	47180	1927	62594	4790	0.05
Voronezh Region	2 307 100	64411	2736	143372	11045	0.06
Jewish Autonomous Region	156 492	4281	322	4419	387	0.03
Trans-Baikal Territory	1 054 071	37341	1876	39475	3345	0.04
Ivanovo Region	987 694	29393	1317	53471	3798	0.05
Irkutsk Region	2 375 640	53018	1933	116682	13497	0.05
Kabardino-Balkarian Republic	870 197	20178	713	21299	885	0.02
Kaliningrad Region	1 019 601	26900	1523	38943	2918	0.04
Kaluga Region	1 000 604	28473	1199	68360	4446	0.07
Kamchatka Territory	311 985	13106	571	12779	710	0.04
Karachay-Cherkess Republic	465 592	18568	675	7982	392	0.02
Kemerovo Region	2 634 376	30891	1377	122241	12347	0.05
Kirov Region	1 251 182	35041	1753	71534	4285	0.06
Kostroma Region	628 972	1202	100	35937	3011	0.06
Krasnodar Territory	5 689 538	36679	1378	287423	16303	0.05
Krasnoyarsk Territory	2 857 567	60689	2354	151088	13673	0.05
Republic of Crimea	1 903 707	34772	2466	94285	6413	0.05
Kurgan Region	819 299	16787	758	33160	3109	0.04

Kursk Region	1 098 361	16787	758	68311	4685	0.06
Leningrad Region	1 894 038	34158	1593	96979	5217	0.05
Lipetsk Region	1 128 181	23352	1168	72541	5308	0.06
Magadan Region	138 991	13106	571	4488	338	0.03
Moscow	12 636 312	960652	50304	1326923	58136	0.11
Moscow Region	7 713 326	206936	10919	638954	30305	0.08
Murmansk Region	733 158	45650	2006	40040	2212	0.05
Nenets Autonomous District	44 404	989	63	1953	213	0.04
Nizhny Novgorod Region	3 177 816	92136	3509	295507	15834	0.09
Novgorod Region	593 232	26185	1472	32214	2378	0.05
Novosibirsk Region	2 786 412	34437	1262	214460	20406	0.08
Omsk Region	1 904 294	39799	1776	101265	7793	0.05
Orenburg Region	1 945 307	36509	1328	100097	8077	0.05
Oryol Region	725 725	29213	1260	52590	3213	0.07
Penza Region	1 292 211	36276	1598	86159	5127	0.07
Perm Territory	2 580 639	44389	2323	135767	9914	0.05
Primorsky Territory	1 879 486	39248	1682	74032	5671	0.04
Pskov Region	621 028	30923	2889	31816	2789	0.05
Republic of Adygea	463 091	13615	702	12929	958	0.03
Republic of Altai	221 050	41949	1649	7086	690	0.03
Republic of Bashkortostan	4 016 481	26994	1177	202409	12978	0.05
Republic of Buryatia	986 132	32498	1902	31214	3475	0.03
Republic of Dagestan	3 132 368	18568	675	42914	4646	0.01
Republic of Ingushetia	515 970	14517	620	6036	618	0.01
Republic of Kalmykia	270 139	18509	747	8201	496	0.03
Republic of Karelia	609 439	39217	3176	30348	2628	0.05
Komi Republic	813 859	38541	2123	40381	2982	0.05
Mari El Republic	676 184	11385	373	27274	1432	0.04
Republic of Mordovia	779 753	17207	627	52523	3078	0.07
Republic of Sakha (Yakutia)	984 703	32017	1559	23475	1550	0.02

Republic of North Ossetia-Alania	693 449	15322	642	22308	1284	0.03
Republic of Tatarstan	3 894 507	17367	716	215640	12905	0.06
Republic of Tyva	330 327	15596	950	6448	360	0.02
Republic of Khakassia	532 266	21060	1267	23472	2345	0.04
Rostov Region	4 185 233	69683	2750	209825	15327	0.05
Ryazan Region	1 098 998	29213	1260	80771	4832	0.07
Samara Region	3 155 390	45398	2145	220062	15226	0.07
St. Petersburg	5 388 759	356376	26333	553274	28169	0.10
Saratov Region	2 396 961	47197	1892	134832	10076	0.06
Sakhalin Region	485 627	20959	1028	16605	994	0.03
Sverdlovsk Region	4 291 886	75487	2834	347030	23788	0.08
Sevastopol	513 149	11215	698	20795	1899	0.04
Smolensk Region	921 620	25150	1300	52606	3183	0.06
Stavropol Territory	2 794 625	46038	1713	110376	5412	0.04
Tambov Region	995 761	24904	1123	57875	3683	0.06
Tver Region	1 246 759	32079	1652	75080	4644	0.06
Tomsk Region	1 070 544	29619	1472	41029	3957	0.04
Tula Region	1 450 675	31603	1452	100600	5808	0.07
Tyumen Region	3 778 024	75487	2834	77417	6059	0.02
Republic of Udmurtia	1 493 700	27195	1530	68232	5123	0.05
Ulyanovsk Region	1 219 240	46401	2014	72381	4153	0.06
Khabarovsk Territory	1 302 918	47876	2394	53758	3904	0.04
Khanty-Mansi Autonomous Area	1 688 378	50091	2116	92091	6514	0.05
Chelyabinsk Region	3 444 025	48371	2176	200202	16099	0.06
Chechen Republic	1 500 490	11167	995	9972	379	0.01
Chuvash Republic	1 208 806	20787	902	62011	3077	0.05
Chukotka Autonomous District	49 300	672	52	1174	80	0.02
Yamal-Nenets Autonomous District	547 111	36620	1399	29068	2126	0.05
Yaroslavl Region	1 242 356	31111	1334	88558	6221	0.07

Supplementary Table 3. The correlation between the number of queries and new cases of COVID-19 in Russia

Region of Russian Federation	Correlations	p-value	Region	Correlations	p-value	Region	Correlations	p-value
Altai Territory	0.8	0.0000	Magadan Region	0.5	0.0000	Republic of Tyva	0.8	0.0000
Amur Region	0.8	0.0103	Moscow	1.0	0.0000	Republic of Khakassia	0.7	0.4478
Arkhangelsk Region	0.7	0.0000	Moscow Region	0.7	0.0000	Rostov Region	0.6	0.0000
Astrakhan Region	0.3	0.0019	Murmansk Region	0.8	0.0256	Ryazan Region	0.7	0.0000
Belgorod Region	0.3	0.0000	Nenets Autonomous District	0.6	0.0011	Samara Region	0.3	0.0000
Bryansk Region	0.7	0.0000	Nizhny Novgorod Region	0.7	0.0000	St. Petersburg	0.7	0.0000
Vladimir Region	0.6	0.0000	Novgorod Region	0.8	0.0242	Saratov Region	0.5	0.0000
Volgograd Region	0.5	0.0000	Novosibirsk Region	0.6	0.0000	Sakhalin Region	0.8	0.0064
Vologda Region	0.7	0.0530	Omsk Region	0.5	0.0000	Sverdlovsk Region	0.6	0.0000
Voronezh Region	0.5	0.0000	Orenburg Region	0.5	0.0000	Sevastopol	0.7	0.0005
Jewish Autonomous Region	0.9	0.6978	Oryol Region	0.7	0.0001	Smolensk Region	0.6	0.0000
Trans-Baikal Territory	0.8	0.5744	Penza Region	0.6	0.0000	Stavropol Territory	0.8	0.0000
Ivanovo Region	0.5	0.0002	Perm Territory	0.3	0.0000	Tambov Region	0.5	0.0000
Irkutsk Region	0.4	0.0035	Primorsky Territory	0.7	0.0003	Tver Region	0.8	0.0000
Kabardino-Balkarian Republic	0.7	0.3613	Pskov Region	0.8	0.7701	Tomsk Region	0.8	0.0211
Kaliningrad Region	0.7	0.0092	Republic of Adygea	0.9	0.4181	Tula Region	0.7	0.0000
Kaluga Region	0.7	0.0000	Republic of Altai	0.6	0.0000	Tyumen Region	0.3	0.8636
Kamchatka Territory	0.8	0.6483	Republic of Bashkortostan	0.2	0.0000	Republic of Udmurtia	0.3	0.0000
Karachay-Cherkess Republic	0.6	0.0000	Republic of Buryatia	0.7	0.7604	Ulyanovsk Region	0.6	0.0004

Kemerovo Region	0.7	0.0000	Republic of Dagestan	-0.2	0.0010	Khabarovsk Territory	0.6	0.3335
Kirov Region	0.6	0.0000	Republic of Ingushetia	0.3	0.0000	Khanty-Mansi Autonomous Area	0.6	0.0000
Kostroma Region	0.8	0.0000	Republic of Kalmykia	0.8	0.0000	Chelyabinsk Region	0.1	0.0000
Krasnodar Territory	0.7	0.0000	Republic of Karelia	0.9	0.0160	Chechen Republic	0.2	0.5552
Krasnoyarsk Territory	0.6	0.0001	Komi Republic	0.8	0.6031	Chuvash Republic	0.5	0.0000
Republic of Crimea	0.8	0.0000	Mari El Republic	0.6	0.0000	Chukotka Autonomous District	0.4	0.0005
Kurgan Region	0.5	0.0015	Republic of Mordovia	0.7	0.0000	Yamal-Nenets Autonomous District	0.7	0.0071
Kursk Region	0.6	0.0000	Republic of Sakha (Yakutia)	0.7	0.0010	Yaroslavl Region	0.7	0.0000
Leningrad Region	0.7	0.0000	Republic of North Ossetia-Alania	0.7	0.0002			
Lipetsk Region	0.3	0.0000	Republic of Tatarstan	0.1	0.0000			

Supplementary Table 4. Weekly change in the increased number of online smell-related queries and the increased number of new cases of COVID-19

Region of Russian Federation	The beginning of the increase in the number of queries (week)	The beginning of the increase in the number of new cases of infection (week)	Change (weekly)	The beginning of the increase in the number of queries (week)	The beginning of the increase in the number of new cases of infection (week)	Change (weekly)
Altai Territory	-----	----	-----	35	36	1
Amursk Region	-----	18	-----	34	35	1
Arkhangelsk Region	14	15	1	14	15	1
Bryansk Region	15	15	-----	35	35	-----
Vladimir Region	13	14	2	38	40	2
Volgograd Region	15	17	2	36	39	3
Voronezh Region	15	16	1	34	37	3
Ivanovo Region	15	15	-----	38	40	2
Kaliningrad Region	-----	15	-----	36	37	1
Kaluga Region	16	14	2	38	38	-----
Karachay-Cherkess Republic	13	15	2	33	33	-----
Kemerovo Territory	-----	22	-----	36	38	2
Kirov Region	-----	21	-----	37	40	3
Kostroma Region	14	14	-----	39	36	3
Krasnodar Territory	14	15	1	36	39	3
Krasnoyarsk Territory	14	15	1	38	40	2
Republic of Crimea	-----	-----	-----	35	35	-----
Kurgan Region	-----	24	-----	38	39	1
Kursk Region	15	20	5	38	37	1
Leningrad Region	13	14	1	37	36	1

Magadan Region	-----	16	-----	36	37	1
Moscow	13	14	1	37	39	2
Moscow Region	13	8	5	36	40	4
Murmansk Region	13	15	-----	36	38	2
Nenets Autonomous District	14	16	2	37	39	2
Nizhny Novgorod Region	15	15	-----	37	40	3
Novgorod Region	15	16	1	37	39	2
Novosibirsk Region	15	16	1	37	39	2
Omsk Region	24	24	-----	37	36	1
Orenburg Region	-----	16	-----	35	37	2
Oryol Region	14	15	1	38	39	1
Penza Region	-----	16	-----	34	38	4
Primorsky Territory	-----	16	-----	37	41	4
Republic of Altai	-----	17	-----	37	38	1
Republic of Kalmykia	-----	-----	-----	-----	-----	-----
Republic of Karelia	-----	-----	-----	37	39	2
Mari El Republic	14	15	1	38	37	1
Republic of Mordovia	15	15	-----	38	39	1
Republic of Sakha (Yakutia)	14	16	2	34	36	2
Republic of North Ossetia-Alania	13	15	2	40	33	6
Republic of Tyva	14	19	5	36	38	2
Rostov Region	-----	16	-----	35	36	1
Ryazan Region	15	15	-----	37	39	2
St. Petersburg	14	16	2	36	40	4
Saratov Region	-----	16	-----	35	36	1
Sakhalin Region	-----	-----	----	37	40	3
Sverdlovsk Region	-----	17	-----	35	40	5
Sevastopol	-----	-----	-----	-----	41	-----

Smolensk Region	15	16	1	37	39	2
Stavropol Territory	13	15	2	38	38	-----
Tambov Region	15	15	-----	37	38	1
Tver Region	14	22	8	14	22	8
Tomsk Region	-----	14	-----	38	36	2
Tula Region	14	15	1	37	38	1
Ulyanovsk Region	15	15	-----	34	36	2
Khanty-Mansi Autonomous Area	-----	16	-----	37	36	1
Chuvash Republic	13	14	1	37	40	-----
Yamal-Nenets Autonomous District	-----	24	-----	37	38	1
Yaroslavl Region	15	16	1	37	37	-----

Supplementary Table 5. Statistics of levofloxacin-related queries in Russia

Region	New cases of infection	The number of levofloxacin-related queries	The levofloxacin queries/new infection cases ratio
Moscow	963941	822911	0.9
St. Petersburg	360459	285314	0.8
Tver Region	32688	40679	1.2
Republic of North Ossetia-Alania	15473	26417	1.7
Leningrad Region	34846	44392	1.3
Arkhangelsk Region	55642	18857	0.3
Novgorod Region	26582	17263	0.6
Kaliningrad Region	27421	16781	0.6
Mari El Republic	11532	13497	1.2
Altai Territory	16090	78015	4.8
Stavropol Territory	46642	103974	2.2
Moscow Region	963941	400554	0.4
Nenets Autonomous District	1001	558	0.6
Smolensk Region	25618	31091	1.2
Bryansk Region	32158	51433	1.6
Vladimir Region	26509	62799	2.4
Ryazan Region	23946	61161	2.6
Nizhny Novgorod Region	93747	162097	1.7
Krasnodar Territory	37301	286333	7.7
Penza Region	37018	56406	1.5
Chuvash Republic	21014	47122	2.2
Ulyanovsk Region	46895	66214	1.4
Kaluga Region	35567	36908	1.0

Kaluga Region	28984	54205	1.9
Volgograd Region	47980	104269	2.2
Kostroma Region	18120	16456	0.9
Tambov Region	25406	56262	2.2
Oryol Region	29623	28292	1.0
Tula Region	32121	61625	1.9
Yaroslavl Region	31751	39911	1.3
Ivanovo Region	29864	28996	1.0
Kursk Region	29731	78557	2.6
Khanty-Mansi Autonomous Area	50072	34701	0.7
Saratov Region	48057	149431	3.1
Kemerovo Region	31169	82028	2.6
Orenburg Region	36931	79134	2.1
Amursk Region	20688	16179	0.8
Voronezh Region	65749	122168	1.9
Primorsky Territory	39688	34037	0.9
Sverdlovsk Region	76315	145440	1.9
Tomsk Region	29879	18982	0.6
Republic of Mordovia	17448	32854	1.9
Krasnoyarsk Territory	60660	286333	4.7
Novosibirsk Region	34917	176262	5.0
Kurgan Region	17112	23857	1.4