Infectious rate: each infected person can spread the virus to about (1 to 2 others) on average

Disease
PK

IDdisease	NameDisease	Infectious Rate	Mortality Rate (%)	Incubation Period (days)	Development Period (days)	Convalescence Period (days)	Cause	Comment Section
1	Flu	1,3	0,15%	2	8,5	10	VIRUS	Influenza
2	Strep Throat	2,5	0,05%	3,5	3	14	BACTERIA	Streptococcus
3	AIDS	0,00005	50%	14	61	4380	VIRUS	HIV
4	COVID-19	2,5	1,50%	5	10	14	VIRUS	SARS-CoV-2 virus
5	Salmonella	4	0,05%	3	5	12	BACTERIA	Salmonella. Food poisoning
6	Plague	2	50%	4	4	14	BACTERIA	Yersinia pestis
7	Rabies	1	99,50%	61	1	2	VIRUS	Lyssavirus
8	Tetanus	NULL	15%	10	5	18	BACTERIA	Clostridium tetani
9	Chickenpox	9	0,70%	15	1,5	13	VIRUS	Zoster Virus
10	Tuberculosis	5	10%	28	62	210	BACTERIA	TB
11	Gastroenteritis	2,5	0,60%	3	5	7	VIRUS	Norovirus
12	Ébola	2	75%	10	1,5	21	VIRUS	Ebolavirus
13	Mononucleosis	3,5	8%	35	12	21	VIRUS	Epstein-Barr

Symptom
PK

IDsymptom	NameSymptom	Pain Management
1	Sore Throat	MILD
2	Inflammation	MILD
3	Diarrhea	MILD
4	Fever	MILD
5	Stomach ache	MILD
6	Nausea	MILD
7	Vomiting	MILD
8	Skin Rashes/ Other cutain reactions	MILD
9	Jaundice	MILD
10	Chills	MILD
11	Headache	MILD
12	Stuffy nose	MILD
13	Oxygen	MILD
14	Seizures	MILD
15	Cough	MILD
16	Sore Throat	SEVERE
17	Inflammation	SEVERE
18	Diarrhea	SEVERE
19	Fever	SEVERE
20	Stomach ache	SEVERE
21	Nausea	SEVERE
22	Vomiting	SEVERE
23	Skin Rashes/ Other cutain reactions	SEVERE
24	Jaundice	SEVERE
25	Chills	SEVERE
26	Headache	SEVERE
27	Stuffy nose	SEVERE
28	Oxygen	SEVERE
29	Seizures	SEVERE
30	Cough	SEVERE

Virtual Population

Initial Population	% Infected	% Healthy	% Immune	Immunity Period	Disease_ID
				Inserted by researcher	
9	44,44%	33,34%	22,22%	176	1
7	42,86%	28,57%	28,57%	93	4
6	50%	33,33%	16,67%	98	6
6	16,67%	50%	33,33%	130	13

Virtual Person

IDvirtual_person	State	Disease Countdown	Immunity Countdown	Disease_ID
		Disease Period Countdown		
1	ILL	20,5	0	1
2	HEALTHY	0	0	1
3	IMMUNE	0	176	1
4	HEALTHY	0	0	1
5	IMMUNE	0	176	1
6	ILL	20,5	0	1
7	ILL	20,5	0	1
8	ILL	20,5	0	1
9	HEALTHY	0	0	1
10	ILL	29	0	4
11	HEALTHY	0	0	4
12	IMMUNE	0	93	4
13	HEALTHY	0	0	4
14	IMMUNE	0	93	4
15	ILL	29	0	4
16	ILL	29	0	4
17	ILL	22	0	6
18	ILL	22	0	6
19	HEALTHY	0	0	6
20	ILL	22	0	6
21	HEALTHY	0	0	6
22	IMMUNE	0	98	6
23	HEALTHY	0	0	13
24	ILL	98	0	13
25	HEALTHY	0	0	13
26	IMMUNE	0	130	13
27	HEALTHY	0	0	13
28	IMMUNE	0	130	13

Treatment

IDtreatment	NameTreatment
1	Cefuroxima
2	Penicilina
3	Isoniazid
4	Entecavir
5	Amoxicillin
6	Metronidazole
7	Rifapentine
8	Azithromycin
9	Acyclovir
10	Ibuprofen
11	Acetaminophen

Diagnosis

IDdiagnosis	NameDiagnosis	Date	Disease_ID	MedicalRecord_ID
1	Tuberculosis	22/06/2000	10	4
2	Miopericarditis	08/09/2023	13	7
3	Strep Throat	23/03/2024	2	3
4	Tetanus	09/08/2012	8	3
5	Flu	01/02/2024	1	1
6	COVID-19	06/05/2020	4	2
7	Rabies	19/10/2021	7	8
8	Chickenpox	17/05/2007	9	3
9	Gastroenteritis	13/03/2024	11	6
10	Salmonella	26/11/2013	5	5

Disease has Treatment

Disease_ID	Treatment_ID
2	1
2	2
10	3
7	4
2	5
8	6
10	7
5	8
9	9
4	10
13	11

Medical Record

IDmedical_record	Patient_ID
1	2
2	3
3	1
4	5
5	4
6	6
7	7
8	8

Patient

IDpatient	NamePatient	Surname	DoB
1	Amalia	Rial Plaza	03/07/2004
2	Paula	Rial Plaza	25/07/2001
3	Victoria	Rial Plaza	22/12/1999
4	Sara	Rial Villanueva	06/06/1991
5	Rodrigo	Rial Horcajo	24/08/1962
6	Aranzazu	Plaza Diaz	17/03/1972
7	Rodrigo	Fernández Sanchez	14/05/2004
8	Rubén	Garcia Pardo	19/10/2003

Primary KEY
Foreign KEY
Enum

Diagnosis has treatment

IDtreatment	Diagnosis_ID
1	3
1	3
1	3
4	7
5	3
6	4
7	1
8	10
9	8
10	6
11	2

Disease has Symptoms
FK->

Disease_ID	Symptom_ID
1	4
1	19
1	10
1	25
1	15
1	30
1	1
1	16
1	27
1	12
1	11
1	26
1	3
1	18
1	7
1	22
2	1
2	16
2	4
2	19
2	10
2	25
2	5
2	20
2	11
2	26
2	6
2	7
2	21
2	22
3	4
3	19
3	10
3	25
3	8
3	23
3	1
3	16
4	4
4	19
4	10
4	25
4	11
4	26
4	1
4	16
4	12
4	27
4	6
4	7
4	21
4	22
4	3
4	18
5	3
5	18
5	4
5	19
5	5
5	20
5	6
5	7
5	21
5	22
5	11
5	26
6	4
6	19
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6	25
6	8
6	23
6	15
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7	11
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7	14
7	29
7	6
7	7
7	21
7	22
7	4
7	19
8	4
8	19
8	10
8	25
8	26
8	14
8	29
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10	15
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10	25
10	4
10	19
11	3
11	18
11	6
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11	21
11	22
11	5
11	20
11	4
11	19
11	10
11	25
11	11
11	26
12	1
12	16
12	4
12	19
12	5
12	20
12	3
12	18
12	7
12	22
13	1
13	16
13	4
13	19
13	11
13	26
13	8
13	23