

Infectious rate: each infected person can spread the virus to about (1 to 2 others) on average									
Disease								1 (Virus) /2 (Bacteria)	
PK	IDisease	NameDisease	Infectious Rate	%	Incubation Period (days)	Development Period (days)	Convalescence Period (days)	Cause	Comment Section
1	1	Flu	1,3	0,15%	2	8,5	10	1	Influenza
2	2	Strep Throat	2,5	0,05%	3,5	3	14	2	Streptococcus
3	3	AIDS	0,00005	50%	14	61	4380	1	HIV
4	4	COVID-19	2,5	1,55%	5	10	14	1	SARS-CoV-2 virus
5	5	Salmonella	4	0,05%	3	5	12	2	Salmonella. Food poisoning
6	6	Plague	2	50%	4	4	14	3	Yersinia pestis
7	7	Rabies	1	99,50%	61	1	2	1	Lyssavirus
8	8	Tetanus	N/A/L	15%	10	5	18	2	Clostridium tetani
9	9	Chickenpox	9	0,70%	15	1,5	13	1	Zoster Virus
10	10	Tuberculosis	5	10%	28	62	210	2	TB
11	11	Gastroenteritis	2,5	0,60%	3	5	7	1	Norovirus
12	12	Ebola	2	75%	10	1,5	21	1	Ebolavirus
13	13	Mononucleosis	3,5	8%	35	12	21	1	Epstein-Barr

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

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

Diagnosis				
IDdiagnosis	NameDiagnosis	Date	Disease_ID	MedicalRecord_ID
1	Tuberculosis	22/06/2000	10	4
2	Mycopercarditis	08/09/2023	13	7
3	Strep Throat	23/03/2024	2	3
4	Tetanus	09/09/2012	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

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	García Pardo	19/10/2003

Virtual Population					
Initial Population	% Infected	% Healthy	% Immune	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		1 (RU) / 2 (healthy) / 3 (immune)		4 (deceased)		Disease Period Countdown		Immunity Countdown		Disease_ID	
IDVirtual_person	State	Disease Countdown		Immunity Countdown		Disease_ID		Disease_ID		Disease_ID	
1	1	20,5	0	0	0	1		1		1	
2	2	0	0	0	0	1		1		1	
3	3	0	0	176	3	1		3		3	
4	2	0	0	0	1	1		3		3	
5	3	0	0	176	1	1		3		3	
6	1	20,5	0	0	1	1		4		4	
7	1	20,5	0	0	1	1		4		4	
8	1	20,5	0	0	1	1		4		4	
9	2	0	0	0	1	1		4		4	
10	1	29	0	0	4	4		4		4	
11	2	0	0	0	4	4		4		4	
12	3	0	12	93	4	4		4		4	
13	2	0	0	0	4	4		4		4	
14	3	0	0	93	4	4		4		4	
15	1	29	0	0	4	4		4		4	
16	1	29	0	0	4	4		4		4	
17	1	22	0	0	6	6		4		4	
18	1	22	0	0	6	6		4		4	
19	2	0	0	0	6	6		4		4	
20	1	22	0	0	6	6		4		4	
21	2	0	0	0	6	6		4		4	
22	3	0	98	6	6	6		4		4	
23	2	0	0	0	13	13		5		5	
24	1	98	0	0	13	13		5		5	
25	2	0	0	0	13	13		5		5	
26	3	0	0	130	13	13		5		5	
27	2	0	0	0	13	13		5		5	
28	3	0	130	13	13	13		5		5	

Disease has Treatment	
Disease_ID	Treatment_ID
2	1
10	3
7	4
2	5
8	6
10	7
5	8
15	9
4	10
13	11

Disease has Symptoms		Primary KEY
PK>		
Disease_ID	Symptom_ID	Foreign KEY
1	4	Enum
1	19	
1	105	
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	3	
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	
6	11	
6	26	
6	10	
6	25	
6	4	
6	23	
6	15	
6	36	
7	11	
7	26	
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	11	
8	26	
8	14	
8	29	
9	4	
9	19	
9	11	
9	26	
9	8	
9	23	
10	15	
10	30	
10	10	
10	25	
10	4	
10	19	
11	3	
11	18	
11	6	
11	7	
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	