

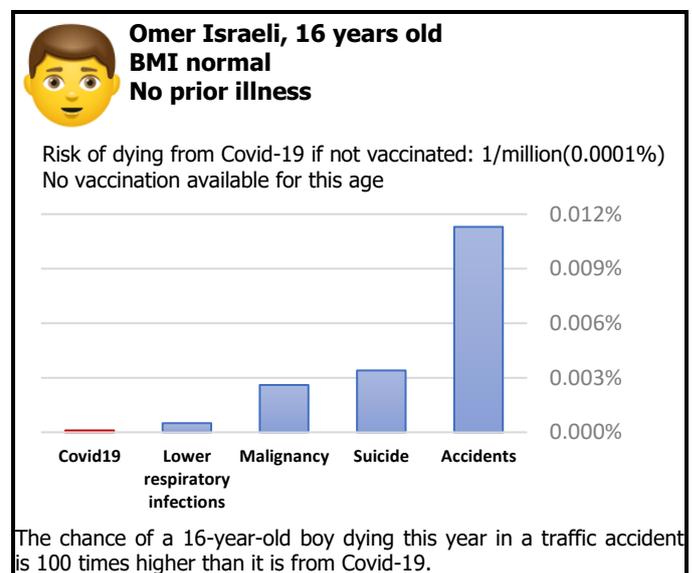
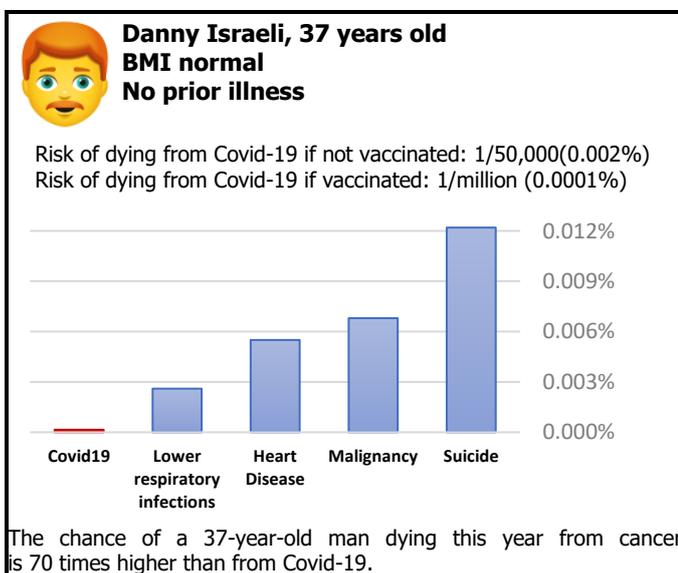
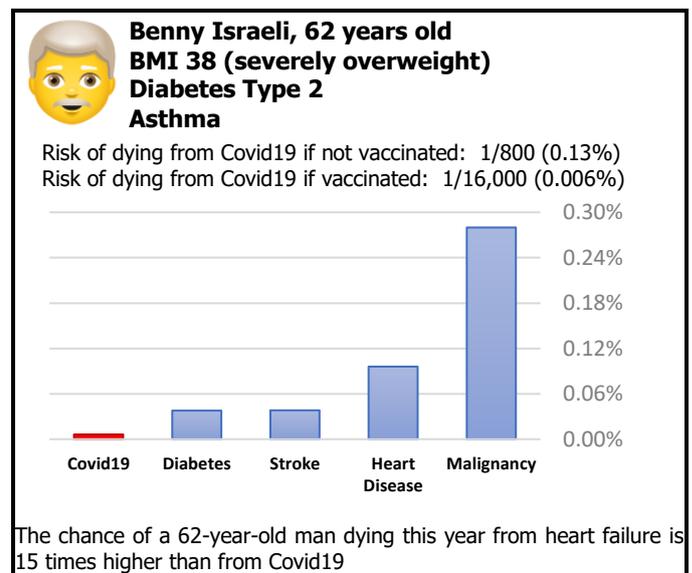
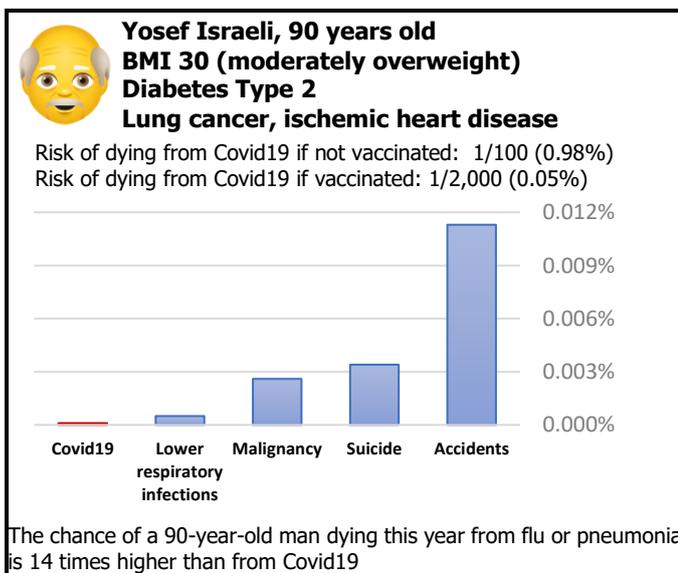


What are the risks (for me) if someone is not vaccinated? Epidemiological risk analysis for the assessment of the need for coercion or incentives for vaccination

Medical treatment requires the free consent of the patient. Nevertheless, the state has the right to suspend one's right to autonomy over one's own body in extremely rare cases when an individual might present a risk to the surroundings—in which case, the right of a society to protect itself outweighs the right of an individual over his or her body. The question then becomes: Is it fair to use force, sanctions and/or incentives to encourage vaccination? In order to evaluate this question, we must analyze the real risks to a vaccinated person from an environment in which people have not been vaccinated. In this way, we can be informed if there is a significant risk that warrants coercion or sanctions in order to protect the health of the public at large.

Obviously, it is not inherently dangerous to be near someone who has not been vaccinated; the risk only pertains to one who is contagious. In order to assess the level of risk, chances of infection and deterioration should be taken into account. In addition, we should examine the efficacy of the vaccine in preventing transmission, illness and death.

For the purpose of risk assessment, we have adapted a particularly stringent scenario: a family living in an area hit hard by an epidemic (London, April 2020), and an individual who is the only one to have been vaccinated. Furthermore, the efficacy of the vaccine is based on the [Pfizer report](#) (95%), not on the [Ministry of Health report](#) (98.9%). This model takes into account the probability of infection, risk for deterioration and vaccine protection.





Summary

Based on an epidemiological analysis and stringent conditions and data regarding the vaccine, it appears that for a person who has been vaccinated, it no longer matters whether the people around her or him have been vaccinated. The risk of dying from Covid-19 has become negligible—lower than the risk of ordinary seasonal flu. Considering how insignificant the risk from an unvaccinated person is vis-à-vis those who are vaccinated, there is clearly no epidemiological reason to suspend one's civil rights in order to protect the health of the general public. Furthermore, the separation of the vaccinated population from the unvaccinated is not any more necessary than it would be in the case of any other respiratory virus.

Based on the Oxford QCovid Risk Calculator, used to calculate the risk of death, according to age, ethnicity, locale, gender and existing medical conditions, during 90 days from the peak of the 2020 Covid-19 epidemic in the UK

Main causes of death in Israel, *Global Health Observatory*, World Health Organization (WHO)

Efficacy of the Vaccine (Hebrew), Ministry of Health, updated to February 13, 2021

"Pfizer and BionTech Conclude Phase 3 Study of Covid-19 Vaccine Candidate", Press Release, November 18, 2020

*The analysis refers only to men, because of the greater tendency of men to suffer from Covid-19. A more detailed document, which goes more deeply into the calculations, is available on our website.



The Members of the Council* (in alphabetical order)



Dr. Yifat Abdi-Kork

An expert in epidemiology and molecular biology, served as a Consultant to the national health basket public committee and Head of Pharmacoeconomics Department, Israeli Center for Technology Assessment in Health Care, the Gertner Institute.



Prof. Zvika Granot

Professor of Immunology in the Faculty of Medicine at the Hebrew University. An international expert in the field of neutrophil research, is developing new approaches to immunotherapy.



Dr. Bruria Adini

PhD in Health Systems Management, serves as head of the Department of Emergency and Disaster Management at Tel Aviv University. Former Head of the IDF Emergency Preparedness Division (Lt. Col.) and Senior Consultant to the Ministry of Health's Emergency Division.



Dr. Michal Hemo Lotem

Pediatrician, Entrepreneur and author on leadership at medical futurism. Served as Vice President of Innovation at the Sheba Medical Center, and as a member of the Prime Minister's Advisory Council. Founded Beterem - Safe Kids Israel, and OSHEYA - Women Lead Wellness. Received Prime Minister's special Award for her contribution to children.



Prof. Amos Adler

Professor of Medicine in the Department of Epidemiology and Preventive Medicine, Specialist in Pediatrics and Clinical Microbiology. Director of the Microbiological Laboratory at Sourasky Medical Center Tel Aviv, Treasurer of the Israeli Association for Infectious Diseases.



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Professor Emeritus of Professional Ethics and Philosophy at Tel Aviv University. Laureate of the Israel Prize for Philosophy. Member of the European Academy of Sciences and Arts. Wrote dozens of state and public codes of ethics, including the military code of ethics, as well as serving as a member of several national public committees



Prof. Elian Alkrinawi

Professor of Social Work, served as president of the Achva College, head of the Department of Social Work at Ben-Gurion University and as dean of the School of Social Work at Memorial University in Canada. Killam Award winner and beacon lighter at the 2013 Independence Day ceremony.



Prof. Amnon Lahad

Specialist in Family Medicine (ISR) and Public health (US). Head departments of Family Medicine Hebrew University & Clalit Health Services, Jerusalem, Israel. Vice Dean Academia – Family medicine, Hebrew University. Chairman of the National Council for the Health of the Community. Active Family physician in Jerusalem.



Prof. Zvi Bentwich

Professor of Medicine, specialist in Clinical Immunology and Infectious Diseases. Served as Chief of Department of Medicine, and pioneered AIDS medicine in Israel. Currently Head of Center for Tropical Diseases and AIDS at Ben-Gurion University. President of NALA Foundation for the Control of Neglected Tropical Diseases in Developing Countries and Board Member of Physicians for Human Rights in Israel.



Prof. Retsef Levi

Professor of Operations Management at the MIT Sloan School of Management. An international expert in safety, risk management and analytics-driven design and optimization of health systems and biologic drugs manufacturing systems. He is leading several large-scale research collaborations across the world with leading industry enterprises and government organizations. He has consulted multiple state governments during the COVID-19 pandemic.



Dr. Orna Blondheim

Specialist in Pediatrics and Neonatology as well as Director of Health Systems. She served as the director of the Schneider Children's Hospital and served 16 years as CEO of Emek Medical Center



Prof. Udi Qimron

Chair of the Department of Clinical Microbiology and Immunology at Tel Aviv University. Expert in T cells, mucosal vaccines, genetic engineering of bacterial viruses, and CRISPR. Published in Science, Nature and Cell and has won prestigious research grants including the ERC. Partner in the establishment of the SARS-CoV-2 testing laboratories.



Prof. Emerita Rivka Carmi

Professor of Medicine, Specialist in Pediatrics, Neonatology and Medical Genetics. Served as Director of the Genetic Institute at Soroka Hospital, Dean of the Faculty of Medical Sciences at Ben-Gurion University, Chairman of the Dean of Medical Schools Association, President of Ben-Gurion University and Chairman of the Board of Universities.



Dr. Amir Shachar

Specialist in internal medicine, cardiology, emergency medicine and health administration. Established and managed the Department of Emergency Medicine at Sheba Hospital, was deputy director of Meir Hospital and currently heading the ER at Laniado Hospital. Founded the Emergency Medicine department at Tel Aviv University.



Prof. Aaron Ciechanover

Serves as a Distinguished Professor at the Faculty of Medicine in the Technion-Israel Institute of Technology. Awarded with the chemistry Nobel Prize, as well as the Lasker Award, the Israel Prize, and the EMET Prize. He is a member of the US National Academies of Sciences (NAS) and Medicine (NAM), the Israeli National Academy of Sciences and Humanities, and the Pontifical Academy of Sciences at the Vatican.



Prof. Mordechai Shani

Professor of Medicine and Medical Management, Specialist in Internal Medicine. Winner of the Israel Prize. Served twice as Director General of the Ministry of Health and Director of Sheba Hospital, as well as Chairman of the Medicines Committee. Founded and managed the School of Public Health at Tel Aviv University, and also established and managed the National Institute for Health Policy Research.



Prof. Eran Dolev

Professor of Medicine, Military Medicine and Medical History, Specialist in Internal Medicine, Director of Health Systems and Ethics in Medicine. He served as Surgeon General of the IDF, as Director of the Internal Medicine Department, and as Chairman of the Ethics Bureau of the Medical Association and Head of the International Review Board of Tel Aviv University.



Prof Emerita Zahava Solomon

Lt. Col (ret). Recipient of the Israel Prize, the Emet Prize and The Laufer Award. Her research in Social Work and Psychiatric Epidemiology focuses on man - made trauma. Served as head of research in mental health IDF. Head of the School of Social Work and director of the Trauma I-Core, TAU and DSM-4 (APA) committee.



Prof. Asher Elhayany

Professor of Medicine, Specialist in Family Medicine and Public Administration. He served as the CEO of Meir Hospital, the director of the Central District at Clalit Medical Centre, and as the director of the United Health Fund. He served as chairman of the National Council for Health in the Community. Family doctor in the Negev.



Dr. Yoav Yehezkeili

Specialist in Internal Medicine and Medical Management. Lecturer in the Department of Emergency and Disaster Management at Tel Aviv University. Lt. Col. Res., One of the founders of the epidemic treatment team and evaluation programs for extreme biological incidents. Served as a hospital's deputy director, district physician, director of the primary care division in the HMOs. Medical consultant to KI research institute.



Prof. Eitan Friedman

Professor of Medicine in the Department of Genetics and Biochemistry, Specialist in Internal Medicine and Medical Genetics, PhD from the Karolinska Institute in Sweden. Established the Ontogenetic Unit and Clinic for High-Risk Women at Sheba Hospital, serves as chair of the Ministry of Health's Supreme Helsinki Committee.

*The opinions expressed are the individual opinions of the members, and do not necessarily represent the opinions of the institutions to which the members are affiliated.