



September 9, 2020

Dear Colleagues,

As infectious diseases physicians and researchers, microbiologist and immunologists, epidemiologists and health policy leaders, we stand united in efforts to develop and promote science-based solutions that advance human health and prevent suffering from the coronavirus pandemic. In this pursuit, we share a commitment to a basic principle derived from the Hippocratic Oath: *Primum Non Nocere (First, Do No Harm)*.

To prevent harm to the public's health, we also have both a moral and an ethical responsibility to call attention to the falsehoods and misrepresentations of science recently fostered by Dr. Scott Atlas, a former Stanford Medical School colleague and current senior fellow at the Hoover Institute at Stanford University. Many of his opinions and statements run counter to established science and, by doing so, undermine public-health authorities and the credible science that guides effective public health policy. The preponderance of data, accrued from around the world, currently supports each of the following statements:

- The use of face masks, social distancing, handwashing and hygiene have been shown to substantially reduce the spread of Covid-19. Crowded indoor spaces are settings that significantly increase the risk of community spread of SARS-CoV-2.
- Transmission of SARS-CoV-2 frequently occurs from asymptomatic people, including children and young adults, to family members and others. Therefore, testing asymptomatic individuals, especially those with probable Covid-19 exposure is important to break the chain of ongoing transmission.
- Children of all ages can be infected with SARS-CoV-2. While infection is less common in children than in adults, serious short-term and long-term consequences of Covid-19 are increasingly described in children and young people.
- The pandemic will be controlled when a large proportion of a population has developed immunity (referred to as herd immunity) and that the safest path to herd immunity is through deployment of rigorously evaluated, effective vaccines that have been approved by regulatory agencies.

- In contrast, encouraging herd immunity through unchecked community transmission is not a safe public health strategy. In fact, this approach would do the opposite, causing a significant increase in preventable cases, suffering and deaths, especially among vulnerable populations, such as older individuals and essential workers.

Commitment to science-based decision-making is a fundamental obligation of public health policy. The rates of SARS-CoV-2 infection in the US, with consequent morbidity and mortality, are among the highest in the world. The policy response to this pandemic must reinforce the science, including that evidence-based prevention and the safe development, testing and delivery of efficacious therapies and preventive measures, including vaccines, represent the safest path forward. Failure to follow the science -- or deliberately misrepresenting the science -- will lead to immense avoidable harm.

We believe that social and economic activity can reopen safely, if we follow policies that are consistent with science. In fact, the countries that have reopened businesses and schools safely are those that have implemented the science-based strategies outlined above.

As Stanford faculty with expertise in infectious diseases, epidemiology and health policy, our signatures support this statement with the hope that our voices affirm scientific, medical and public health approaches that promote the safety of our communities and nation.

Philip A. Pizzo, MD

Professor of Pediatrics (Infectious Diseases) and of Microbiology and Immunology and Former Dean, Stanford School of Medicine and Founding Director, Stanford Distinguished Careers Institute

Upi Singh, MD

Professor of Medicine (Infectious Disease and Geographic Medicine) and of Microbiology and Immunology and Chief, Division of Infectious Diseases

Bonnie Maldonado, MD

Professor of Pediatrics (Infectious Diseases) and of Epidemiology and Population Health Chief, Division of Pediatric Infectious Diseases and Senior Associate Dean for Faculty Development and Diversity

Lucy Shapiro, PhD

Professor of Developmental Biology and Director, Beckman Center for Molecular and Genetic Medicine

Melissa Bondy, PhD

Professor and Chair of Epidemiology and Population Health and Co-Director of the Stanford Center for Population Health Sciences

Michele Barry, MD

Professor of Medicine and Senior Associate Dean for Global Health and Director, Center for Innovation in Global Health and Senior Fellow, Woods Institute and the Freeman Spogli Institute for International Studies

Charles Prober, MD

Professor of Pediatrics and of Microbiology and Immunology and Senior Associate Vice Provost for Health Education

Julie Parsonnet, MD

Professor of Medicine (Infectious Diseases and Geographic Medicine) and of Epidemiology and Population Health

Steve Goodman, MD, MHS, PhD

Professor of Epidemiology and Population Health and Associate Dean of Clinical and Translational Research

David Relman, MD

Professor of Medicine (Infectious Diseases) and of Microbiology and Immunology and Senior Fellow, Freeman Spogli Institute for International Studies

Lee M. Sanders, MD, MPH

Associate Professor of Pediatrics and of Health Research and Policy (Epidemiology) and Chief, Division of General Pediatrics

Steve Luby, MD

Professor of Medicine (Infectious Diseases) and of Epidemiology and Population Health and Senior Fellow, Freeman Spogli Institute

Harry Greenberg, MD

Professor of Medicine and of Microbiology and Immunology and Associate Dean for Research

Ann Arvin, MD

Professor of Pediatrics (Infectious Diseases) and of Microbiology and Immunology and Former Vice Provost and Dean of Research

Edward S Mocarski, Jr, PhD

Professor of Microbiology and Immunology, Emeritus

John Boothroyd, PhD

Professor of Microbiology and Immunology

John Carette, PhD

Associate Professor of Microbiology and Immunology

Dylan Dodd, MD, PhD

Assistant Professor of Pathology and of Microbiology and Immunology

Jason Andrews, MD, SM, DTM&H

Associate Professor of Medicine (Infectious Diseases) and of Epidemiology and Health Policy

David Studdert, LLB, MPH, ScD

Professor of Law and Medicine, Stanford Health Policy, Stanford Law School

Michelle Mello, JD, PhD

Professor of Medicine (Health Policy) and Professor of Law

Joshua Salomon, PhD

Professor of Medicine (Primary Care and Outcomes Research) and Senior Fellow, Freeman Spogli Institute for International Studies

Manuel Ricardo Amieva, MD, PhD

Professor of Pediatrics (Infectious Diseases) and of Microbiology and Immunology

Lorene Nelson, PhD, MA

Associate Professor of Epidemiology and Public Health and Faculty Director of the Stanford Center for Population Health Sciences

**Abraham Verghese MD,
MACP, FRCP(Edin)**

Linda R. Meier and Joan F.
Lane Provostial Professor,
Vice Chair for the Theory and
Practice of Medicine

Aruna Subramanian, MD

Clinical Professor of Medicine,
Chief, Immunocompromised
Host Infectious Diseases
Division of Infectious Diseases
and Geographic Medicine

**Dean L. Winslow, MD, FACP,
FIDSA, FPIDS**

Professor of Medicine –
Infectious Diseases

Stephen J Galli, MD

Professor of Pathology and of
Microbiology and Immunology
and Former Chair, Department
of Pathology

Helen M Blau, PhD

Professor of Microbiology and
Immunology and Director,
Baxter Laboratory for Stem Cell
Biology

Jason Wang, MD, PhD

Associate Professor of Pediatrics
and Medicine and of Health
Research and Policy and
Director, Center for Policy,
Outcomes and Prevention

Ann Hsing, PhD, MPH

Professor of Medicine (Stanford
Prevention Research
Center/Cancer Institute) and
Epidemiology and Population
Health

Steve Asch, MD, MPH

Professor of Medicine, Primary
Care and Population Health

Esther John, PhD, MSPH

Professor, Department of
Epidemiology and Population
Health and Co-leader,
Population Sciences Program,
Stanford Cancer Institute

Thomas C Merigan, MD

Professor of Medicine, Emeritus
Former Division Chief Director,
Center for Aids Research,
Emeritus

**David A. Stevens, M.D.,
F.A.C.P., F.A.A.M., F.I.D.S.A.**

Professor of Medicine -
Infectious Diseases, Emeritus
and President, California
Institute for Medical Research,
Infectious Diseases Research
Laboratory, Calif. Inst. for Med.
Res.

Gary K. Schoolnik, MD

Professor of Medicine -
Infectious Diseases, Emeritus

Jack Remington, MD

Professor of Medicine
(Infectious Diseases) and Chief,
Palo Alto Medical Research
Foundation

Cornelia L. Dekker, MD

Professor of Pediatrics
(Infectious Diseases), Emerita

Denise Monack, PhD

Professor of Microbiology and
Immunology

Stan Deresinski, MD, FIDSA

Clinical Professor of Medicine
Infectious Diseases and
Geographic Medicine

Shirit Einav, MD

Associate Professor Medicine -
Infectious Diseases and
Geographic Medicine and of
Microbiology and Immunology

Robert Shafer, MD

Professor of Medicine Division
of Infectious Diseases and
Geographic Medicine

Holden Terry Maecker, PhD

Professor of Microbiology and
Immunology

Wah Chiu, PhD

Professor of Bioengineering and
of Microbiology and
Immunology

Doug K Owens, MD, MS

Professor of Medicine and
Senior Fellow, Freeman Spogli
Institute for International
Studies

**Cybele A. Renault, MD,
DTM&H**

Clinical Associate Professor
(Infectious Diseases) Program
Lead for Global Health
(Stanford Internal Medicine
Residency Program)

Jake Scott, MD

Clinical Assistant Professor of
Medicine Infectious Diseases
and Geographic Medicine

Justin Sonnenburg, PhD

Associate Professor of
Microbiology and Immunology
and Co-Director, Center for
Human Microbiome Studies

Hector Bonilla, MD

Clinical Associate Professor of
Medicine Infectious Diseases
and Geographic Medicine

Dora Ho, MD, PhD

Clinical Associate Professor of
Medicine Infectious Diseases
and Geographic Medicine

Marisa Holubar, MD MS

Clinical Associate Professor of
Medicine Infectious Diseases
and Geographic Medicine and
Associate Director, Stanford
Antimicrobial Safety and
Sustainability Program

Sharon Chen, MD, MS

Clinical Associate Professor of
Pediatrics (Infectious Diseases)

Roshni Matthew, MD

Clinical Assistant Professor of
Pediatrics (Infectious Diseases)
and Associate Medical Director,
Infection Prevention & Control

Elizabeth S. Egan, MD, PhD

Assistant Professor of Pediatrics
(Infectious Diseases) and the
Tashia and John Morgridge
Endowed Faculty Scholar

Jenny R. Aronson, MD

Clinical Assistant
Professor Division of Infectious
Diseases and Geographic
Medicine

Catherine Blish, MD, PhD

Associate Professor of Medicine
Infectious Diseases and
Geographic Medicine and
Immunology

Paul L. Bollyky, MD, D.Phil

Associate Professor Division of
Infectious Diseases Department
of Medicine

Talal Seddick, MD

Clinical Assistant of Professor of
Pediatrics (Infectious
Diseases)

Clea Sarnquist, MD

Clinical Professor of Pediatrics
(Infectious Diseases)

Sruti Nadimpalli, MD

Clinical Professor of
Pediatrics (Infectious
Disease)

Tim Stearns, PhD

Professor of Biology and of
Genetics and Senior Associate
Vice Provost for Research

Kerwyn Casey Huang, PhD

Professor of Bioengineering and
of Microbiology and
Immunology

Michael Fischbach, PhD

Associate Professor of
Bioengineering and of
Microbiology and Immunology

Maya Adam, MD

Clinical Assistant Professor of
Pediatrics and Director of
Health Media Innovation

Samantha Johnson, MD, MPH

Clinical Associate Professor of
Pediatrics (Infectious Diseases)

Philip M. Grant, MD

Assistant Professor of Medicine
Infectious Diseases and
Geographic Medicine

Joanna Nelson, MD

Clinical Assistant Professor
Department of Medicine –
Infectious Diseases

Peter Sarnow, PhD

Professor of Microbiology and
Immunology

**Glenn M. Chertow, MD,
MPH**

Norman S. Coplon Satellite
Healthcare Professor of
Medicine, and by courtesy
Department of Epidemiology
and Population Health

**Bonnie Halpern-Felsher, PhD,
FSAHM**

Professor of Pediatrics, Taube
Endowed Research Faculty
Scholar Professor, and
by courtesy Department
of Epidemiology and
Population Health, Director of
Fellows' Scholarship,
Department of Pediatrics,
Director of Research, Division
of Adolescent Medicine

A.C. Matin, PhD

Professor of Microbiology and
Immunology

Hayley Gans

Clinical Professor, Pediatrics -
Infectious Diseases

Paul Graham Fisher, MD

Professor, Neurology and
Pediatrics, and by courtesy,
Neurosurgery, Epidemiology and
Population Health, and Human
Biology, The Beirne Family
Professor of Pediatric Neuro-
Oncology, The Dunlevie Family
University Fellow in
Undergraduate Education, Chief,
Division of Child Neurology,
Vice Chair, Faculty Affairs,
Department of Neurology

Victor Henderson, MD

Professor, Department of
Epidemiology and Population
Health

**Taia T. Wang, MD, PhD,
MSCI**

Assistant Professor of Medicine
and of Microbiology and
Immunology

Michael Baiocchi, PhD

Assistant Professor, Department
of Epidemiology and
Population Health

**Lisa Goldman-Rosas, PhD,
MPH**

Assistant Professor, Department
of Epidemiology and Population
Health, Director, Office of
Community Engagement

**Tina Hernandez-Boussard,
PhD, MPH, MS**

Associate Professor of
Medicine, Biomedical Data
Science, and Surgery, and
by courtesy Department
of Epidemiology and Population
Health

Abby King, PhD

Professor, Epidemiology and Population Health, and Medicine (Stanford Prevention Research Center)
Director, Healthy Aging Research & Technology Solutions (HARTS) Laboratory
Faculty Director, *Our Voice* Global Citizen Science Initiative
Past President, Society of Behavioral Medicine

Mitchell R. Lunn, MD, MAS, FACP, FASN

Assistant Professor of Medicine, and by courtesy, Department of Epidemiology and Population Health

Mindie H. Nguyen, MD, MAS, AGAF, FAASLD

Professor, Department of Medicine, and by courtesy Department of Epidemiology and Population Health

Latha Palaniappan, MD, MS, FAHA, FACC, FACP

Professor of Medicine, Department of Medicine (Primary Care and Population Health) and, by courtesy, Department of Epidemiology and Population Health

Allison W. Kurian, M.D., M.Sc.

Associate Professor of Medicine (Oncology) and of Epidemiology and Population Health
Associate Chief for Academic Affairs, Division of Oncology
Director, Women's Clinical Cancer Genetics Program, Co-leader, Population Sciences Program, Stanford Cancer Institute

Kari Nadeau, MD, PhD

Naddisy Foundation Professor of Pediatric Food Allergy, Immunology and Asthma, Professor of Pediatrics and Professor by Courtesy of Otolaryngology Head & Neck Surgery at LPCH and Department of Epidemiology and Population Health

Michelle C. Odden, PhD

Associate Professor, Department of Epidemiology and Population Health

Lesley S. Park, PhD, MPH

Instructor, Department of Epidemiology and Population Health, Associate Director, Stanford Center for Population Health Sciences

Lianne Kurina, PhD

Associate Professor, Primary Care and Population Health, Bing Director of the Program in Human Biology

Lorene Nelson, PhD, MS

Associate Professor, Department of Epidemiology and Population Health Faculty Director of Research, Stanford Center for Population Health Sciences

Juno Obedin-Maliver, MD, MPH, MAS

Assistant Professor, Department of Obstetrics and Gynecology and, by courtesy, Department of Epidemiology and Population Health

Rita A. Popat, PhD

Clinical Associate Professor, Department of Epidemiology and Population Health

David H Rehkopf, ScD, MPH

Associate Professor,
Departments of Epidemiology
and Population Health,
Department of Medicine,
(Primary Care and Population
Health), Co-director, Stanford
Center for Population Health
Sciences

**Thomas N. Robinson, MD,
MPH**

Professor of Pediatrics and of
Medicine and, by courtesy,
Department of Epidemiology and
Population Health

Kristin Sainani, PhD

Associate Professor, Department
of Epidemiology and Population
Health

Gary M. Shaw, DrPH

NICU Nurses Endowed
Professor of Pediatrics,
Associate Chair Dept of
Pediatrics, Department of
Pediatrics and, by courtesy,
Department of Epidemiology
and Population Health

Julia F Simard, ScD

Associate Professor, Department
of Epidemiology & Population
Health

Marcia L. Stefanick, PhD

Professor of Medicine (Stanford
Prevention Research Center),
Professor of Obstetrics &
Gynecology, and by courtesy
Professor of Epidemiology and
Population Health, Director,
Stanford Women's Health and
Sex Differences in Medicine
(WHSDM) Center

Holly Tabor, PhD

Associate Professor,
Department of Medicine and by
courtesy, Department of
Epidemiology and Population
Health) and Associate Director,
Stanford Center for Biomedical
Ethics

Alice S. Whittemore, Ph.D.

Professor (Emerita) of
Epidemiology and Biostatistics
Departments of Epidemiology
and Population Health
and of Biomedical Data Science