Open Letter to Dr. Margaret Chan, Director-General, WHO
(Copied to the International Olympic Committee)

We are writing to express our concern about the upcoming Olympic and Paralympic Games in Rio de Janeiro. WHO’s declaration of Zika as a “Public Health Emergency of International Concern,” coupled with new scientific findings that underscore the seriousness of that problem, call for the Rio 2016 Games to be postponed and/or moved to another location—but not cancelled—in the name of public health.

We make this call despite the widespread fatalism that the Rio 2016 Games are inevitable or “too big to fail”. History teaches this is wrong: the 1916, 1940, and 1944 Olympic Games were not just postponed, but cancelled, and other sporting events were moved because of disease, as Major League Baseball did for Zika, and the Africa Cup of Nations did for Ebola.

Currently, many athletes, delegations, and journalists are struggling with the decision of whether to participate in the Rio 2016 Games. We agree with the U.S. Centers for Disease Control recommendation that workers should “Consider delaying travel to areas with active Zika virus transmission”. If that advice were followed uniformly, no athlete would have to choose between risking disease and participating in a competition that many have trained for their whole lives.

But our greater concern is for global health. The Brazilian strain of Zika virus harms health in ways that science has not observed before. An unnecessary risk is posed when 500,000 foreign tourists from all countries attend the Games, potentially acquire that strain, and return home to places where it can become endemic. Should that happen to poor, as-yet unaffected places (e.g., most of South Asia and Africa) the suffering can be great. It is unethical to run the risk, just for Games that could proceed anyway, if postponed and/or moved.

In our view, several new scientific findings require WHO to reconsider its advice on the 2016 Olympic and Paralympic Games. For example:

1. That the Brazilian viral strain causes microcephaly and probably Guillain-Barré syndrome. Further, because human, animal and in vitro studies demonstrate that the virus is neurotrophic and causes cell death, it is biologically plausible that there are other as yet undiscovered neurological injuries, as exist for similar viruses (e.g. dengue).

2. That while Zika’s risk to any single individual is low, the risk to a population is undeniably high. Currently, Brazil’s government reports 120,000 probable Zika cases, and 1,300 confirmed cases of microcephaly (with another 3,300 under investigation), which is above the historical level of microcephaly.

3. That Rio de Janeiro is highly affected by Zika. Brazil’s government reports Rio de Janeiro state has the second-highest number of probable Zika cases in the country (32,000) and the fourth-highest incidence rate (195 per 100,000), demonstrating active transmission.
4. That despite Rio’s new mosquito-killing program, the transmission of mosquito-borne disease has gone up rather than down. While Zika is a new epidemic and lacks historical data, using dengue fever as a proxy, cases in Rio from January thru April 2016 are up 320% and 1150% over the same periods in 2015 and 2014, respectively. In the specific neighborhood of the Olympic Park (Barra da Tijuca) there have been more dengue cases in just the first quarter of 2016 than in all of 2015.

5. That Rio’s health system is so severely weakened as to make a last-minute push against Zika impossible. Recently Rio’s state government declared a health sector emergency, and Rio’s city government cut funding against mosquito-borne disease by 20%. While the virus is the infectious agent of Zika, its real cause is Rio’s poor social conditions and sanitation—factors that lack a quick fix, and that are not helped when shrinking health resources are diverted to the Games.

6. That it is possible to eradicate the Aedes aegypti mosquito, which transmits Zika, from Rio. Actually that mosquito was totally eradicated from Brazil in the 1950s, but came back after control efforts lapsed. Thus holding the Games, in the presence of Zika-carrying mosquitoes, is a choice and not necessary.

7. That one cannot count on nature for defence. While lower mosquito activity during Rio’s winter months reduces the individual risk to travelers of infection, that is partly offset when travelers who became infected return home during the northern hemisphere’s summer months and peak mosquito activity, which increases the public health risk that local mosquitoes acquire and spread the virus—meaning that both seasons are relevant to the epidemic’s course. Also, infection can spread through blood donations and transfusions, particularly in poor countries that lack screening for Zika.

In sum, the evidence shows: (i) that Brazil’s Zika virus strain has more serious medical consequences than previously known, (ii) that Rio de Janeiro is one of the most affected parts of Brazil, and (iii) that Rio’s mosquito-killing efforts are not meeting expectations, but rather mosquito-borne disease is up this year. It is therefore imperative that WHO conduct a fresh, evidence-based assessment of Zika and the Games, and its recommendations for travelers.

Because Zika is a new emergency, its many uncertainties—of travel flows during the Games, of epidemiology, and of entomology—currently make it impossible for mathematical models to predict the epidemic’s course accurately. Therefore, for now, any decision about Zika and the Games has to be more qualitative than quantitative. If one considers the following options:

(a) Holding the Games in Rio in 2016 as scheduled;
(b) Holding the Games in Rio at a later date after Zika is controlled, and;
(c) Holding the Games at Zika-free sites having Olympic-standard facilities.

It is indisputable that option (a) of holding the Games as scheduled has a greater risk of accelerating the spread of the Brazilian viral strain than the alternatives. Postponing and/or moving the Games also mitigates other risks brought on by historic turbulence in Brazil’s economy, governance, and society at large—which are not isolated problems, but context that
makes the Zika problem all but impossible to solve with the Games fast approaching.

We are concerned that WHO is rejecting these alternatives because of a conflict of interest. Specifically, WHO entered into an official partnership with the International Olympic Committee, in a Memorandum of Understanding that remains secret. There is no good reason for WHO not to disclose this Memorandum of Understanding, as is standard practice for conflicts of interest. Not doing so casts doubt on WHO’s neutrality, for reasons described further in the Appendix.

**WHO must revisit the question of Zika and postponing and/or moving the Games. We recommend that WHO convene an independent group to advise it and the IOC in a transparent, evidence-based process in which science, public health, and the spirit of sport come first. Given the public health and ethical consequences, not doing so is irresponsible.**

Signatories follow in alphabetical order, and represent individuals, not their institutions

Appendix and references at the end

Authors:  
Prof. Amir Attaran (University of Ottawa: aattaran@uottawa.ca)  
Prof. Arthur Caplan (New York University, USA: arthur.caplan@nyumc.org)  
Dr. Christopher Gaffney (University of Zürich: christopher.gaffney@geo.uzh.ch)  
Prof. Lee Igel (New York University, USA: lee.igel@nyu.edu)

1. Prof. Akira Akabayashi, Department of Biomedical Ethics, School of Public Health, The University of Tokyo Faculty of Medicine, Tokyo, Japan  
2. Prof. Paul S. Appelbaum, Director, Division of Law, Ethics & Psychiatry, Department of Psychiatry, Columbia University, New York, USA  
3. Prof. Kwame Anthony Appiah, Department of Philosophy, NYU Law, New York University, New York, USA  
4. Prof. Thalia Arawi, Founding Director, Salim El-Hoss Bioethics & Professionalism Program, Faculty of Medicine, American University of Beirut, Beirut, Lebanon  
5. Prof. Amir Attaran, School of Epidemiology, Public Health and Community Medicine and Faculty of Law, University of Ottawa, Canada  
6. Ms. Stephanie Augustine, Researcher, Department of Maternal Fetal Medicine, North Shore University Hospital, Manhasset, USA  
7. Prof. Robert Baker, Bioethics Program of Clarkson University & The Icahn School of Medicine at Mount Sinai, Schenectady, USA  
8. Dr. Alison Bateman-House, Division of Medical Ethics, Department of Population Health, New York University School of Medicine, New York, USA  
9. Prof. Frances Batzer, Department of Obstetrics & Gynecology, Thomas Jefferson University, Philadelphia, USA
10. **Prof. Angelica M. Baylon**, External Relations Director, Maritime Academy of Asia, Kamaya Point, Philippines

11. **Prof. Solly Benatar**, Founding Director, University of Cape Town Bioethics Centre, Department of Medicine, University of Cape Town, Cape Town, South Africa

12. **Prof. Cecilia Benoît**, Centre for Addictions Research of British Columbia, Department of Sociology, University of Victoria, Victoria, Canada

13. **Mr. Edward J. Bergman**, Department of Medical Ethics and Health Policy, Perelman School of Medicine, University of Pennsylvania, Philadelphia, USA

14. **Prof. Kenneth Berkowitz**, Department of Population Health and Department of Medicine, School of Medicine, New York University, New York, USA

15. **Prof. Ivy Lynn Bourgeault**, Canadian Institutes of Health Research Chair in Gender, Work and Health Human Resources Telfer School of Management, University of Ottawa, Ottawa, Canada

16. **Prof. Marie A. Bragg**, Department of Population Health, New York University School of Medicine, New York, USA

17. **Dr Berit Bringedal**, Senior Researcher, Institute for Studies of the Medical Profession, Oslo, Norway

18. **Prof. Amy Brown**, Maria Fareri Children’s Hospital at Westchester Medical Center, Department of Pediatrics, New York Medical College, Valhalla, USA

19. **Prof. Arthur L. Caplan**, Division of Medical Ethics, New York University Langone Medical Center, New York, USA

20. **Dr. Rhyddhi Chakraborty**, Researcher, Philosophical Bioethics, Global Public Health and Social Justice, American University of Sovereign Nations, USA.

21. **Prof. Theeraphap Chareonviriyaphap**, Department of Entomology, Kasetsart University, Bangkok, Thailand

22. **Prof. Cheryl Cline**, Office of Bioethics, Department of Biomedical and Molecular Sciences, Queen’s University, Kingston, Canada.

23. **Dr. Catherine Constable**, Instructor, Department of Medicine, New York University Langone Medical Center, New York, USA

24. **Prof. Glenn Cohen**, Petrie-Flom Center for Health Law Policy, Biotechnology & Bioethics, Harvard Law School, Cambridge, USA

25. **Prof. Patrick Derr**, Chair, Department of Philosophy, Clark University, Worcester, USA

26. **Prof. Débora Diniz**, Faculty of Law, Universidade de Brasília, and Bioethics Program, FIOCRUZ, Brasília and Rio de Janeiro, Brazil

27. **Prof. Ames Dhai**, Director, Steve Biko Centre for Bioethics, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa
28. Dr. Hasan Erbay, MD. PhD., Department of Medical Ethics and History of Medicine, Afyon Kocatepe University Faculty of Medicine, Afyonkarahisar, Turkey.

29. Prof. Eric Feldman, Health Policy and Medical Ethics, University of Pennsylvania Law School, Philadelphia, USA

30. Dr. Holly Fernandez-Lynch, Executive Director, Petrie-Flom Center for Health Law Policy, Biotechnology and Bioethics, Harvard University, USA

31. Prof. Chris Feudtner, Department of Pediatrics and Department of Medical Ethics, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, USA

32. Dr. Christopher Gaffney, Department of Geography, University of Zürich, Zürich, Switzerland

33. Prof. William Gardner, Children's Hospital of Eastern Ontario Research Institute, Faculty of Medicine, University of Ottawa, Ottawa, Canada

34. Prof. Robert P. George, McCormick Professor of Jurisprudence, Princeton University, Princeton, USA

35. Prof. Grover Gilmore, Dean, Applied Social Sciences, Case Western Reserve University, Cleveland, USA

36. Prof. Moti Gorin, Director, Jann Benson Ethics Center, Colorado State University, USA

37. Prof. Linda Granowetter, Department of Pediatrics, New York University Langone Medical Center, New York, USA

38. Prof. Abhik Gupta, Ph.D., Professor and Dean, School of Environmental Sciences, Assam (Central) University, Silchar, India.

39. Prof. Sally Guttmacher, College of Global Public Health, New York University, New York, USA

40. Prof. Negin Hajizadeh, Department of Medicine, Hofstra Northwell School of Medicine, Hofstra University, Hempstead, USA.

41. Mr. George Halvorson, Chief Executive (Retired) Kaiser Permanente, and Chair, InterGroup Understanding, Sausalito, USA

42. Prof. Deborah S. Hamm, Department of Psychiatry, Columbia University Medical Center, New York, USA

43. Prof. Alice Herb, Division of Humanities in Medicine at State University of New York, Downstate Medical Center, New York, USA

44. Prof. Søren Holm, Centre for Social Ethics and Policy, School of Law, University of Manchester, UK.

45. Prof. Lee H. Igel, Tisch Institute for Sports Management, Media, and Business, New York University, New York, USA
46. Prof. Judy Illes, Canada Research Chair in Neuroethics, Department of Medicine, University of British Columbia, Vancouver, Canada
47. Dr. Mahmood-uz-Jahan, M.D., PhD., Director, Bangladesh Medical Research Council, Dhaka, Bangladesh
48. Prof. Dale Jamieson, Chair, Department of Environmental Studies, New York University, New York, USA
49. Prof. Yeremias Jena, M. Phil., M.Sc, Professor of Medical Ethics at Atma Jaya School of Medicine, Atma Jaya Catholic University of Indonesia, Jakarta, Indonesia.
50. Prof. Steven Joffe, Vice-Chair, Department of Medical Ethics and Health Policy, Department of Pediatrics, University of Pennsylvania Perelman School of Medicine, Philadelphia, USA
51. Prof. Ken Johnson, School of Epidemiology, Public Health and Preventive Medicine, University of Ottawa, Canada
52. Prof. Nora Jones, Associate Director, Center for Bioethics, Urban Health, and Polic, Lewis Katz School of Medicine, Temple University, Philadelphia, USA
53. Prof. Therese Jones, Associate Director, Center for Bioethics and Humanities, Director, Arts and Humanities in Healthcare Program, University of Colorado Anschutz Medical Campus, Denver, USA
54. Prof. Matthias A. Karajannis, Division of Pediatric Hematology/Oncology, New York University Langone Medical Center, New York, USA
55. Prof. Douglas I. Katz, Department of Neurology, Boston University School of Medicine, Braintree, USA
56. Prof. Ralph V. Katz, Professor of Epidemiology, Fellow of the American College of Epidemiology F.A.C.E.), and Founding Chair, Department of Epidemiology and Health Promotion, New York University, New York, USA
57. Ms. Lisa Kearns, Research Associate, Division of Medical Ethics, New York University Langone Medical Center, New York, USA
58. Prof. Aaron Seth Kesselheim, Division of Pharmacoepidemiology & Pharmacoeconomics, Brigham and Women’s Hospital, Harvard Medical School, Harvard University, Boston, USA
59. Dr. Abbas Kharabi, University of Malaya, Kuala Lumpur, Malaysia
60. Dr. Robert Klitzman, Professor of Psychiatry, Director, Masters of Bioethics Program Columbia University, New York, USA
61. Prof. Craig Klugman, Chair, Department of Health Sciences, DePaul University, Chicago, USA
62. Prof. Adam Kolber, Center for Health, Science, and Public Policy, Brooklyn Law School, Brooklyn, USA
63. Prof. Craig Konnoth, Senior Fellow, Leonard Davis Institute of Health Economics, University of Pennsylvania Law School, Philadelphia, USA
64. Prof. Ralph A. Korpman, School of Medicine, Loma Linda University School of Medicine, Loma Linda, USA
65. Dr. Ronald L. Krall, Center for Bioethics and Health Law, University of Pittsburgh, Pittsburgh, USA
66. Prof. Sheldon Krimsky, Department of Urban and Environmental Policy & Planning, Department of Health and Community Medicine, Tufts University, Boston, USA
67. Prof. John Lantos, Director of Pediatric Bioethics, Department of Pediatrics, University of Missouri-Kansas City School of Medicine, Kansas City, USA
68. Prof. John Last, School of Epidemiology, Public Health and Preventive Medicine, University of Ottawa, Ottawa, Canada
69. Prof. Stephen Latham, Director, Interdisciplinary Center for Bioethics, Yale University, New Haven, USA
70. Dr. Thuy Le, Oxford University Clinical Research Unit, Oxford University, Ho Chi Minh City, Vietnam
71. Prof. Arthur Leader, Department of Obstetrics and Gynecology, Faculty of Medicine, University of Ottawa, Ottawa, Canada
72. Mr. Leonard leBlanc, Research Fellow, Eubios Ethics Institute, Japan.
73. Prof. Trudo Lemmens, Scholl Chair in Health Law and Policy, Faculty of Law, University of Toronto, Toronto, Canada
74. Prof. Betty Wolder Levin, School of Public Health and Health Policy, City University of New York, New York, USA
75. Prof. Bruce Levin, Department of Biostatistics, Mailman School of Public Health, Columbia University, New York, USA
76. Prof. Ariane Lewis, Department of Neurology and Department of Neurosurgery, New York University Langone Medical Center, New York, USA
77. Dr. Ana Lita, Director, Global Bioethics Initiative, New York, USA
78. Prof. Julian Little, Director, School of Epidemiology, Public Health and Preventive Medicine, Faculty of Medicine, University of Ottawa, Ottawa, Canada
79. Prof. Sergio Litewka, Institute for Bioethics and Health Policy, Miller School of Medicine, University of Miami, Miami, USA
80. Prof. Alex John London, Director, Center for Ethics and Policy, Carnegie Mellon University, Pittsburgh, USA
81. Prof. Darryl Macer, Ph.D., Hon.D. President, American University of Sovereign Nations, Arizona, USA; Director, Eubios Ethics Institute, Christchurch, New Zealand
82. Prof. Tim Mackey, Director, Global Health Policy Institute, Department of Anaesthesiology and Public Health, University of California at San Diego, San Diego, USA

83. Prof. Ruth Macklin, Department of Epidemiology & Population Health, Albert Einstein College of Medicine, Yeshiva University, New York, USA.

84. Prof. Cheryl Macpherson, Bioethics Department, St George's University School of Medicine, True Blue, Grenada

85. Prof. Brian Martin, Director, Graduate Program in Public Health, Eastern Virginia Medical School, Old Dominion University, Norfolk, USA

86. Prof. Thomas Mayo, Southern Methodist University Dedman School of Law, University of Texas Southwestern Medical School, Dallas, USA

87. Mr. Michael Mawadri, Emergency Coordinator with Action for Development (AFOD) in South Sudan, South Sudan

88. Prof. James McCartney (Reverend, Order of St. Augustine), Department of Philosophy, Villanova University, Villanova, USA

89. Prof. John Merz, Department of Medical Ethics & Health Policy, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, USA

90. Mr. Alan Milstein, Sports Attorney, Sherman, Silverstein, Kohl, Rose & Podolsky, Moorestown, USA

91. Prof. Christine Mitchell, Executive Director, Center for Bioethics, Harvard Medical School, Boston, USA

92. Prof. Jonathan D. Moreno, Department of Medical Ethics and Health Policy, Perelman School of Medicine, University of Pennsylvania, Philadelphia, USA

93. Prof. Dr. Martin Müller, Department of Geography, University of Zürich, Zurich, Switzerland

94. Prof. Carin Muhr, Department of Medical Science, Uppsala University, Uppsala, Sweden.

95. Prof. Anna Nolan, Department of Environmental Medicine, Department of Medicine, New York University Langone Medical Center, New York, USA

96. Prof. Stjepan Oreskovic, Andrija Stampar School of Public Health, University of Zagreb School of Medicine, Zagreb, Croatia

97. Prof. Brendan Parent, Division of Medical Ethics and Co-Director NYU Sports and Society Program, New York University, New York, USA

98. Prof. Shamina Parvin Lasker, Head of Department of Anatomy, Samorita Medical College; Secretary General, Bangladesh Bioethics Society, Dhaka, Bangladesh.

99. Prof. Pasquale Patrizio, Division of Reproductive Endocrinology & Infertility, Yale School of Medicine, New Haven, Connecticut, USA

100. Prof. Sean Philpott-Jones, Department of Bioethics, Clarkson University, Schenectady, NY
101. Dr. Carolyn Plunkett, Division of Medical Ethics, New York University Langone Medical Center, New York, USA

102. Prof. Stephen G. Post, Department of Family, Population & Preventive Medicine, Stony Brook University School of Medicine, Stony Brook, USA

103. Prof. Kathleen Powderly, Director, John Conley Division of Medical Ethics and Humanities, SUNY Downstate Medical Center, Brooklyn, USA

104. Prof. Duncan Purves, Environmental Studies and Bioethics, New York University, New York, USA

105. Prof. Vojin Rakic, Founding Director, Center for the Study of Bioethics, Head of the European Division of the UNESCO Chair in Bioethics, University of Belgrade, Serbia

106. Prof. Vardit Ravitsky, School of Public Health, Université de Montréal, Montreal, Canada

107. Prof. Avad Raz, Department of Sociology and Anthropology, Ben-Gurion University of the Negev, Be’er-Sheva, Israel

108. Prof Kathleen Reeves, Director, Center for Bioethics, Urban Health, and Policy, Lewis Katz School of Medicine, Temple University, Philadelphia, USA

109. Prof. Donald R. Roberts, Department of Preventive Medicine and Biometrics, Uniformed Services University of the Health Sciences, Bethesda, USA

110. Dr. Philip Rubin, Principal Assistant Director (Retired), Office of Science and Technology Policy (OSTP), Executive Office of the President of the United States, New Haven, USA

111. Prof William Ruddick, Founding Director, Center for Bioethics, New York University, New York, USA

112. Prof. Maya Sabatello, Department of Psychiatry, Columbia University, New York, USA

113. Dr. Mojgan Saleuihipour, Faculty of Biomedicine, South Baylo University, CA, USA

114. Prof. Judit Sandor, Director of the Center for Ethics and Law in Biomedicine, Central European University, Budapest, Hungary

115. Prof. Pamela L. Sankar, Department of Medical Ethics and Health Policy, Perelman School of Medicine, University of Pennsylvania, Philadelphia, USA

116. Prof. Arthur Schaefer, Founding Director, Centre for Professional and Applied Ethics, University of Manitoba, Canada

117. Prof. Udo Schuklenk, Ontario Research Chair in Bioethics, Department of Philosophy, Queen’s University, Kingston, Canada

118. Prof. Evan Selinger, Department of Philosophy, Rochester Institute of Technology, Rochester, USA

119. Dr. M. Selvanayagam, Professor, Dean of Research and President of India Association of Bioethics, India
120. Prof. Seema K. Shah, Department of Pediatrics, University of Washington School of Medicine, Seattle, USA
121. Prof. William S. Silvers, University of Colorado Denver School of Medicine, Denver, USA
122. Prof. Peter Singer, University Center for Human Values, Princeton University, Princeton, USA; and School of Historical and Philosophical Studies, University of Melbourne, Melbourne, Australia.
123. Prof. Maria Fiatarone Singh, Chair of Exercise and Sport Science, Faculty of Health Sciences, Sydney Medical School, University of Sydney, Australia
124. Prof. Daniel Skinner, Assistant Professor of Health Policy, Department of Social Medicine, Ohio University, Dublin, USA
125. Raquel R. Smith, Ph.D., Prof. Of Clinical Psychology, American University of Sovereign Nations, Arizona, USA; Community Emergency Response Team (FEMA) Instructor and Manager
126. Prof. Robert Smith, Department of Mathematics and Faculty of Medicine, University of Ottawa, Ottawa, Canada
127. Prof. Jeremy Snyder, Faculty of Health Science, Simon Fraser University, Burnaby, Canada
128. Prof. Robert W. Snyder, Esq. Attorney at Law, Professor of Healthcare Management and Finance, American University of Sovereign Nations School of Medicine, USA.
129. Prof. Martin Strosberg, Bioethics Program of Clarkson University & The Icahn School of Medicine at Mount Sinai, Schenectady, USA
130. Prof. Eileen Sullivan-Marx, Dean, School of Nursing, New York University, New York, USA
131. Prof. Edwin van Teijlingen, Centre for Midwifery, Maternal & Perinatal Health, Faculty of Health & Social Sciences, Bournemouth University, Bournemouth, UK
132. Prof. Henk ten Have, Director, Center for Healthcare Ethics, Duquesne University, Pittsburgh, USA
134. Prof. Duunjian Tsai, M.D., PhD., Professor, Taipei Medical University, Taiwan.
135. Prof. Connie Ulrich, Department of Biobehavioral Health Sciences, University of Pennsylvania School of Nursing, Philadelphia, USA
136. Prof. Erick Valdés, Universisad del Desarrollo, Chile
137. Prof. Robert M. Veatch, Kennedy Institute of Ethics, Georgetown University, Washington DC, USA
138. Prof. J. David Velleman, Professor of Philosophy and Bioethics, New York University, New York, USA
139. Dr. Ford Vox, Brain Injury Medicine, Shepherd Center, Atlanta, USA
140. Dr. Gary I. Wadler, Past Chairman, World Anti-Doping Agency (WADA) Prohibited List Committee, Recipient of the International Olympic Committee's President's Prize in 1993, Manhasset, USA.

141. Mr. Wendell Wallach, Lecturer, Yale Interdisciplinary Center for Bioethics, New Haven, USA

142. Prof. Vivian Welch, School of Epidemiology, Public Health and Preventive Medicine, University of Ottawa, Ottawa, Canada

143. Prof. Bruce Wilcox, Faculty of Public Health, Mahidol University, Bangkok, Thailand

144. Prof. Benjamin Wilfond, Director, Treuman Katz Center for Pediatric Bioethics, Seattle Children's Research Institute, Department of Pediatrics, University of Washington, Seattle, USA

145. Prof. Loren Wissner Greene, Department of Population Health and Bioethics, Department of Obstetrics and Gynecology, New York University Langone Medical Center, New York, USA

146. Prof. Wendy L. Wobeser, Division of Infectious Diseases, Queen's University, Kingston, Canada

147. Prof. Paul Root Wolpe, Asa Griggs Candler Professor of Bioethics and Director, Center for Ethics, Emory University, Atlanta, USA

148. Prof. Sanni Yaya, School of International Development and Global Studies, Faculty of Social Sciences, University of Ottawa, Ottawa, Canada.

149. Prof. Boris Yudin, Department of Humanitarian Expertise and Bioethics, Institute of Philosophy, Russian Academy of Sciences, Moscow, Russia

150. Dr. Diana Zuckerman, President, National Center for Health Research, Washington DC, USA
Appendix: WHO and IOC in Partnership

WHO has a decades-long, high-level partnership with the International Olympic Committee. That partnership was last affirmed in 2010 at an event where the Director General of WHO and President of the IOC signed a Memorandum of Understanding, which is secret because neither has disclosed it.\(^{17}\)

Inappropriately, WHO sees its role as not just providing public health advice. It established a “Virtual Interdisciplinary Advisory Group”, whose “important promotional point,” according to WHO is “that the Group can help in bidding for major events (like the Olympic Games)”.\(^{18}\) That is a clear conflict of interest, when WHO must also evaluate and make recommendations about Olympic travel during a Public Health Emergency of International Concern (PHEIC).

The overly close relationship between WHO and the IOC is apparent in the comments of WHO’s Executive Director responsible for Zika, just days after it was declared a PHEIC:

> “Brazil is going to have a fantastic Olympics and it's going to be a successful Olympics and the world is going to go there. I just wish I was going there, but there's not going to be a lot of problems there by then.”\(^{19}\)

With respect, this is a troubling statement. WHO cannot credibly assess the public health risks of Zika and the Olympics when it sets neutrality aside. Declaring that “it’s going to be a successful Olympics and the world is going to be there” implies that WHO has given the Olympics an unconditional green light, without regard to rapidly emerging medical, entomological, and epidemiological evidence—all of which must be considered in assessing whether this mass gathering could accelerate the global spread of the Brazilian strain of Zika virus. To prejudge that “there’s not going to be a lot of problems” before reviewing this evidence is extremely inappropriate of WHO, and suggests that a change in leadership may be required to restore WHO’s credibility.
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