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Global Legal Triage in Response to the 2009 H1N1 Outbreak

James G. Hodge, Jr.*

I. INTRODUCTION

Considered by many public health authorities to be a mere “glancing” blow to global health, the 2009 H1N1 (swine) flu pandemic did not present the type of cataclysmic threat some initially feared. Still, the spread of H1N1 flu globally

1. This article is based in part on James G. Hodge, Jr. & Evan D. Anderson, Principles and Practice of Legal Triage During Public Health Emergencies, 64 N.Y.U. ANN. SURV. AM. L. 249 (2008) and James G. Hodge, Jr., Legal Triage During Public Health Emergencies and Disasters, 58 ADMIN. L. REV. 627 (2006). While these articles provide an existing foundation for defining legal triage on a domestic level, this manuscript extends these concepts to the global arena, specifically in response to the H1N1 influenza pandemic. The author acknowledges the editing and research assistance of Ron Ordell, J.D., Brian Harel, J.D., PhD, and Aubrey Joy Corcoran, J.D., M.P.H, as well as Christopher Stringham and Sarah O’Keefe, J.D. Candidates, Sandra Day O’Connor College of Law, Arizona State University.

2. Although mortality related to H1N1 largely shifted to a different group than routine, annual flu outbreaks, deaths related to H1N1 may actually be less severe than those during a normal flu season. See Editor’s Summary, Anne M. Presanis et al., The Severity of Pandemic H1N1 Influenza in the United States, from April to July 2009: A Bayesian Analysis, PLoS Med., Dec. 2009, at 1,12 (estimating 6,000 deaths from H1N1 in the U.S. through November 2009, which is lower than similar deaths caused by seasonal influenza in an average year, while explaining that H1N1 victims are younger, however, than the estimated 36,000 persons who die per year in the U.S. from seasonal influenza).

3. See Christophe Fraser et al., Pandemic Potential of a Strain of Influenza A (H1N1): Early Findings, 324 SCIENCE 1557, 1557 (2009) (reporting that H1N1 flu severity is less than the Influenza Pandemic of 1918...
represents the first major communicable disease threat of the millennium. It resulted in the first ever declaration of a public health emergency of international concern (PHEIC) by the World Health Organization (WHO), the initial widespread use of the newly-revised international health regulations (IHRs), and an international response effort that featured multiple declarations of national or regional emergencies. The pandemic also offered an opportunity to assess how the global public health system responds to transnational communicable disease threats in the modern era.

In many ways, the global health system has triumphed. Within weeks of its detection in Mexico, H1N1 influenza became a global concern. International surveillance coordinated by WHO, the U.S. Centers for Disease Control and Prevention (CDC), and others began almost immediately.


Isolates of the H1N1 virus were shared internationally. Sources of transmission were rapidly detected. Those at greatest risks of morbidity or mortality from H1N1 were identified. National pandemic flu plans and interjurisdictional agreements developed by WHO member countries over the prior decade were operationalized. Public and private sector response efforts were well-coordinated in many countries. Treatment protocols were developed and antiviral resources like oseltamivir were allocated to ensure medical care for those at risk of serious complications. People with natural immunities, stemming most likely from their exposure to the Spanish flu of 1918 or other flues, were identified. A safe and effective vaccine was quickly prepared, tested for human use, and available on the market within months. And perhaps most importantly, public health education led to temporary changes in individual behaviors to stymie the flu’s spread and impact. Countless infections were

10. See Press Release, World Health Org., Clinical Features of Severe Cases of Pandemic Influenza: Pandemic (H1N1) 2009 Briefing Note 13 (Oct. 16, 2009) available at http://www.who.int/csr/disease/swineflu/notes/h1n1_clinical_features_20091016/en/index.html describing the groups most at risk from H1N1 as “pregnant women, . . . children younger than 2 years of age, and people with chronic lung disease, including asthma”).
11. Katz, supra note 5, at 1166.
13. See id. at 1168. But see David Boulleau et al., Letter to the Editor, Detection of Pandemic (H1N1) 2009 Virus in Patients Treated with Oseltamivir, 16 EMERGING INFECTIOUS DISEASES 351, 351 (2010) (raising questions about “potential virus transmission during antiviral treatment and the possible resistance of pandemic (H1N1) to oseltamivir”).
16. See Rick Hampson, H1N1 Flu Spreading Changes in Behavior:
avoided and thousands of lives were saved through these and other efforts.

In other ways, however, the global public health system has failed despite widespread international planning, preparedness, and response efforts. While international surveillance commenced immediately, accurate assessments of the prevalence of H1N1 remain sketchy. Global counts of persons infected with this strain of flu are mere estimates. At-risk individuals in many countries, including pregnant women and children in developed countries like the United States, were not able to access preventive measures, including vaccines, when they needed them most. Persons at risk in developing countries had essentially no chance to be vaccinated. Antiquated techniques slowed vaccine manufacturing, leading to an immediate global allocation crisis. Even when vaccines became available, their distribution was marred by international battles over who would receive supplies first, infighting over its allocation within countries, and gross failures to distribute to those most at risk. In essence, emergency response efforts could not stop the natural spread of flu, nor could public health interventions protect those most at risk in many countries. Had H1N1 resembled a more potent strain capable of killing victims with


20. See Martin Enserink, Developing Countries to Get Some H1N1 Vaccine–But When?, 326 SCIENCE 782, 782 (2009).


22. See Enserink, supra note 20; Tan Ee Lyn, Asia Worries over H1N1 Flu Vaccine Production, REUTERS, May 18, 2009, http://www.reuters.com/article/idUST208264 (last visited Apr. 8, 2010) (reporting that Indonesia and India were worried about their access to vaccine produced predominantly in Europe and the United States).
the ease of H5N1 (avian) flu, the global health impact would have been considerably worse.\textsuperscript{23}

If H1N1 was a “test” run of the modern global public health system,\textsuperscript{24} then the system has fallen short. Significant response efforts globally could not stop the inevitable march of a highly communicable and potentially deadly virus. Millions contracted H1N1 within weeks of its detection,\textsuperscript{25} hundreds were reported dead,\textsuperscript{26} and others have suffered economically, \textsuperscript{27} emotionally, or mentally.\textsuperscript{28} Lingering questions remain as to the reasons for these failures to control infectious diseases globally during public health emergencies. Many factors are at play—ineffective or non-existent public health surveillance systems in many countries, pre-existing lack of access to medical services, insufficient medical personnel, lack of medical treatment and supplies, and ill-designed vaccine distribution systems. Costs and public apathy in some countries are also to blame. Greece, for example, recently cancelled orders for an additional 12 million doses of H1N1 vaccine in the face of national budget deficits,\textsuperscript{29} even though only approximately 3%

\textsuperscript{23} Accord Presanis, supra note 2, at 9 (stating that study estimates placed the H1N1 epidemic “within the lowest category of severity considered in pandemic planning conducted prior to the appearance of [the virus] in the United States”).

\textsuperscript{24} See Thom Patterson, Canada’s Olympic-Sized Plan to Fight H1N1, CNN, Jan. 18, 2010, http://www.cnn.com/2010/HEALTH/01/13/olympics.flu.preps/ (last visited Apr. 8, 2010) (warning that the potential for H1N1 to re-emerge in the Spring of 2010 remains a possibility especially during international gatherings like the Winter Olympics in Vancouver).

\textsuperscript{25} Mick Stobbe, CDC Reports 20 Percent of Americans Got Swine Flu Vaccine, WASH. POST, Jan. 16, 2010, at A5. (estimating 55 million became ill and 246,000 were hospitalized); Centers for Disease Control and Prevention, 2009 H1N1 Early Outbreak and Disease Characteristics, (Oct. 27, 2009), http://www.cdc.gov/h1n1flu/surveillanceqa.htm (last visited Apr. 8, 2010) (estimating that over 1 million became ill between April and June 2009).

\textsuperscript{26} Stobbe, supra note 25.

\textsuperscript{27} See P.J. Huffstutter, Swine Flu? Please Don’t Call It That: Hog Farmers, Already Hurting from the Recession, Say H1N1 Paranoia Has Devastated Business, L.A. TIMES, Dec. 5, 2009, at A22 (reporting that the pork industry has lost $1.5 billion since the virus was reported in April).


\textsuperscript{29} Harry Papachristou, Greece Halts Purchases of H1N1 Flu Vaccines, REUTERS, Jan. 19, 2010,
of its population is vaccinated.\textsuperscript{30} Despite H1N1’s potential to kill, many people in developed countries like the United States chose to forego vaccination even when vaccines became plentiful.\textsuperscript{31} Elsewhere, countries, where population threats like malaria, HIV/AIDS, tuberculosis, and malnourishment are mainstays, did not prioritize H1N1 prevention.\textsuperscript{32}

At least partially responsible for global inadequacies in H1N1 responses are divergent legal responses authorizing a range of antiquated, inconsistent, and uncoordinated public health prevention and control measures. As explained in \textbf{Part II}, while WHO and multiple member countries declared various emergencies in response to H1N1, these declarations authorized an array of measures that were not always well-targeted or well-implemented in controlling pandemic flu. Worse still, some WHO member countries’ emergency laws authorized government to act in ways that diverge from principles of public health practice, science, ethics, and human rights. WHO’s implementation of the IHRs, intended to provide internationally-consistent standards for public health emergency responses, did not necessarily guide the independent exercise of national or regional emergency powers among sovereign governments. Significant global health objectives became mired in disputes over legal responsibility, national sovereignty, and trade policies. \textbf{Part III} explains that the resulting global legal quagmire is attributable in part to failures in what I refer to as “global legal triage.” Defined essentially as those efforts among international and national leaders, legal counsel, and others to identify, prioritize, and

http://www.reuters.com/article/idUSLDE60I0RI20100119 (last visited Apr. 8, 2010).

30. S. Tsiodras et al., \textit{The Vaccination Campaign Against 2009 Pandemic Influenza A(H1N1) and Its Continued Importance in View of the Uncertainty Surrounding the Risk Associated with the Pandemic}, \textit{EUROSURVEILLANCE}, Jan. 21, 2010, at 10, 10.


solve transnational public health legal issues to improve global health outcomes in real-time emergencies, global legal triage is essential to protecting global health. National laws are core to emergency responses, but do not allow for the type of sustained, organized international responses that lead directly to improved global health outcomes. What is missing internationally is an enforceable global legal strategy that prioritizes key decisions designed to protect the health of populations beyond national borders. A brief conclusion follows.

II. INTERNATIONAL DECLARATIONS OF EMERGENCIES

Laws are indispensable to effective emergency response efforts. On the national level, country-specific laws create the public health infrastructure through which governments detect, declare, and address emergencies. Laws determine not only what constitutes a public health emergency, but also how to respond through public and private actors. Assessing the legal environment in declared states of public health emergency, however, is complicated. Significant legal challenges emerge nationally from the convergence of response efforts of varied entities (e.g., public health agencies, emergency management agencies, hospitals, non-profit institutions) and actors (e.g., public health practitioners, health care workers, law enforcers) at multiple levels of government (e.g., national, regional, and local). Existing laws must be interpreted and applied in real time during emergencies. New laws and policies are triggered by or flow from the emergency

33. This definition is based in part on the existing definition of “legal triage” applicable in domestic legal responses and espoused most recently as: “those efforts by public health legal practitioners during declared emergencies to ‘prioritize legal issues and solutions in real time that facilitate legitimate public health responses.’” Hodge & Anderson, supra note 1, at 273 (citing Hodge, supra note 1, at 631). This definition uses the term “triage” consistent with its general meaning as “a process in which things are ranked in terms of importance or priority[.]” THE AMERICAN HERITAGE DICTIONARY OF THE ENGLISH LANGUAGE 1840 (4th ed. 2000).


36. See id. at 26.
declaration itself.\textsuperscript{37} While advance knowledge of emergency jurisprudence’s principles can help to answer many issues, unique legal problems stem from the specific circumstances of any emergency. These emerging legal dilemmas are not easily resolved within any country during a public health emergency.

Now consider how these challenges escalate when a major communicable disease threat goes global. Viral flu strains like H1N1 do not respect international boundaries. In a global economy with hundreds of thousands of persons and millions of goods traversing continents daily, the spread of easily-communicated diseases like H1N1 are predictable and inevitable. It took only a few weeks for H1N1 to transition from a localized threat to a global pandemic.\textsuperscript{38} Yet, emergency legal responses among countries are less predictable. International standards issued by WHO, the World Trade Organization (WTO), and others on how to respond to global health threats (1) allow significant deviations based on national interpretations of law, policy, and science, and (2) respect international variances in legal systems, politics, and cultures. As a result, one country’s public health legal responses do not necessarily mimic another’s, which leads to legal differences in response capabilities. Resulting failures to effectively respond to global health threats like H1N1 in some countries increase risks for populations in other nations (even if those other nations are working extensively to control emerging disease threats).\textsuperscript{39}

\textsuperscript{37} See Hodge, supra note 1, at 634–40 (describing various declarations that can be issued at the state and federal levels and how those declarations change their respective legal environments).


Ill-advised legal responses to transnational risks may be hastily crafted in real-time in ways that are detrimental to global health, trade, and populations. For example, at the inception of the H1N1 pandemic in April 2009, authorities in China used their quarantine laws to sequester a group of seventy or so Mexican tourists visiting their country.\footnote{Andrew Browne, \textit{China Forces Dozens of Mexican Travelers into Quarantine}, WALL ST. J., May 4, 2009, at A14.} Some of these individuals and others were held for several days at a local hotel\footnote{Id.} even though there was insufficient information to suggest they had H1N1 or had been exposed to individuals believed to be infected with the virus. Additional countries like Argentina, Peru, Ecuador, and Cuba issued legal mandates to temporarily cancel all outgoing flights to Mexico,\footnote{Marc Lacey & Andrew Jacobs, \textit{Even as Fears of Flu Ebb, Mexicans Feel Stigma}, N.Y. TIMES, May 5, 2009, at A1 (reporting that Mexican diplomats were angered by the suspension of flights from Mexico by four Latin American nations—Argentina, Peru, Ecuador and Cuba—in response to the flu outbreak).} even though WHO recommended against similar travel restrictions.\footnote{Browne, \textit{supra} note 40.} Cuban authorities reportedly also authorized military soldiers and other personnel to close highways, isolate neighborhoods, and go door-to-door to enforce mandatory quarantines and evacuations door-to-door as needed.\footnote{James Anderson, \textit{The Flu Pandemic: Cuban Civil Defense Teams Keep Flu at Bay}, HOUSTON CHRON., Oct. 4, 2009, at 23.} The Tunisian government prohibited its citizens from traveling to Mecca in October for the annual pilgrimage because of a lack of H1N1 vaccine.\footnote{Citizens Barred from Making Hajj, L.A. TIMES, Oct. 7, 2009, at A28.} Russian and other national authorities blatantly violated WTO policies by banning all pork imports from the United States and other countries for a limited time, despite the lack of a public health justification for the ban (because H1N1 cannot be spread through the consumption of pork products).\footnote{Jonathan Lynn, \textit{Swine Flu Alert Prompts Pork Import Bans}, REUTERS, Apr. 27, 2009, http://www.reuters.com/article/idUSN27548150 (last visited Apr. 8, 2010).} Despite the lack of any substantiated threat to the public’s health, the Egyptian government ordered the slaughter of several hundred thousand pigs at the onset of the pandemic, at significant cost to local
farmers who were not paid for their losses.47

Although these examples are limited to specific jurisdictions, they exemplify a fundamental weakness of global legal efforts to respond to H1N1 flu. Specifically, there is no definitive, enforceable legal framework to control emergency, communicable disease threats globally. As discussed below, the most comprehensive, modern approach to controlling infectious diseases has been developed by the WHO in the 2005 revision of its International Health Regulations (IHRs). Though extensive, purposeful, and endorsed by WHO member countries,48 the central flaw of the IHRs remains their enforceability.49 The regulations constitute a guide more than a legal mandate during pandemics. National emergency and public health laws govern in default. As documented in Table 1, below, however, emergency laws and responses among sovereign countries vary extensively. In combination, implementation of international and national laws to address global health threats like H1N1 in real-time emergencies is at best reactionary.

A. WORLD HEALTH ORGANIZATION INTERNATIONAL HEALTH REGULATIONS

On April 25, 2009, at the inception of the H1N1 pandemic, WHO Director-General Dr. Margaret Chan sought the counsel of WHO’s Emergency Committee and quickly declared a public health emergency of international concern (PHEIC) pursuant to the IHRs.50 The Director-General’s decision was preemptive and unprecedented. This was the first time that WHO declared a PHEIC under its new, revised standards.51

47. Gostin, supra note 5, at 2378; Egypt Orders Slaughter of All Pigs over Swine Flu: No Cases Reported in the Country; Some Farmers Refusing to Cooperate, MSNBC, Apr. 29, 2009, http://www.msnbc.msn.com/id/30480507/ (last visited Apr. 8, 2010).

48. See WORLD HEALTH ORG., FREQUENTLY ASKED QUESTIONS ABOUT THE INTERNATIONAL HEALTH REGULATIONS (2005), available at http://www.who.int/ihr/about/FAQ2009.pdf (explaining that IHR are binding on all countries, including all WHO member states).

49. See Gostin, supra note 5, at 2377 (stating that failure to comply with norms was a reason behind the revision to the IHR, however the new regulations also provide little enforcement authority to the WHO).

50. Press Release, Chan, supra note 4.

51. Katz, supra note 5, at 1167.
Finalized by the World Health Assembly on May 23, 2005 following lessons learned during the 2003 Severe Acute Respiratory Syndrome (SARS) epidemic, a revamped version of the IHRs only became effective on June 15, 2007. Shedding the antiquated premises of its original conception in the 1960s, the modern purpose of the IHRs are to “prevent, protect against, control, and provide a public health response to the international spread of disease in ways that are commensurate with and restricted to public health risks, and which avoid unnecessary interference with international traffic and trade.” In setting international standards for disease control and prevention, the new IHRs reject the disease-specific approach of prior iterations (which focused only on three diseases—cholera, plague, and yellow fever) and adopt an “all hazards” approach. The revised IHRs apply broadly to naturally occurring infectious diseases, chemical or radiological elements, bioterrorism, and other global threats to the public’s health.

The IHRs provide a host of public health powers to control these threats, including international public health surveillance, vaccinations, medical examinations, quarantine, isolation, and restrictions on human travelers and trade. Coextensively, they incorporate human rights norms in counter-balance to the use of these and other public health powers. Human rights protections include the need to respect human dignity and freedoms, provide a right to health for quarantined or isolated individuals, protect against unwarranted discrimination, ensure transparency, and

55. WORLD HEALTH ORG., supra note 48, at 1.
56. See IHR (2005), at art. 1 (defining “disease” as encompassing any illness or medical condition “that presents or could present a significant harm to humans).
57. See id.
58. See, e.g., id. at arts. 5, 23, 31.
promote privacy of identifiable health data. Before a public health measure may restrict civil or political human rights, the IHRs have been interpreted to require that the measure must: “(1) respond to a pressing public or social need; (2) pursue a legitimate aim; (3) be proportionate to the legitimate aim; and (4) be no more restrictive than necessary to achieve the purpose sought by restricting the right.” Though meaningful, human rights protections under the IHRs fall short in two key ways. First, due process protections in the use of compulsory public health powers are not explicitly spelled out. Second, a human rights requirement to employ least restrictive alternatives to coercive public health powers applies only to the use of medical exams, not other compulsory powers like vaccination, isolation, or quarantine.

WHO member countries are required to notify WHO of events constituting a PHEIC within twenty-four hours of their receipt of evidence that identifies an extraordinary event which is determined to (1) “constitute a public health risk to other states through the international spread of disease”; and (2) “potentially require a coordinated international response[.]” As unusual instances of respiratory, flu-like illnesses began to emerge in March 2009, Mexican health authorities properly notified the Pan-American Health Organization (PAHO), the regional arm of WHO covering the Americas. PAHO transmitted these data to WHO in Geneva. Once a PHEIC is declared, WHO’s Director-General can:

- Independently assess and verify disease prevalence in

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59. See id. at arts. 3, 32, 42, 45.
60. See Fidler & Gostin, supra note 52, at 87.
62. See IHR (2005), at art. 23 (stating that no health measure under the IHR shall be carried out except in accordance with the law and international obligations of the State Party).
63. See id. at art. 23.
64. See id. at arts. 1, 6.
65. Katz, supra note 5, at 1166.
66. See id. at 1167.
countries with assistance from non-governmental organizations;

- Share data with other countries to help with international response efforts; and

- Issue temporary (non-binding) recommendations to countries on the most appropriate ways to respond, including health measures to be taken by affected countries and countries not directly affected.67

Countries may follow WHO’s guidance in their discretion. The IHRs stipulate only that countries must not (1) mandate invasive procedures as a condition of entry for any traveler; (2) require health documentation for travelers other than those authorized in the IHRs or by WHO;68 (3) impose health measures that are more restrictive than the IHRs without adequate scientific or WHO guidance; or (4) unnecessarily restrict international traffic or trade.69

The primary flaw of the IHRs are not WHO’s failure to set forth reasonably sound provisions for international disease control. Throughout the H1N1 pandemic, WHO worked with real-time surveillance information to generate guidance for global emergency response efforts based on existing public health science and practice. The problem lies in their enforcement. The IHRs provide guidance, not mandates, although member states have strong incentives to adhere to retain their WHO status and avoid public censure. Yet there

67. See IHR (2005), at arts. 10, 12, 15–17.

68. See id. at art 23. Concerning international travelers, countries may require for public health purposes, upon departure or arrival, information on the traveler’s destination or itinerary; a non-invasive medical examination; and inspection of bags, cargo, containers, mail, and human remains. Id. Pursuant to Article 31, “invasive medical examinations, vaccination or other prophylaxis shall not be required as a condition of entry” unless they are (1) “necessary to determine whether a public health risk exists;” (2) a condition of entry for a traveler seeking temporary or permanent residence; (3) consistent with country-specific health measures that comply with Article 43; or (4) implemented consistent with Article 23. Id. at arts. 31, 43.

69. See id. at art. 43.

70. See Gostin, supra note 5, at 2377.

71. See Sturtevant et al., supra note 53, at 120 (“The WHO has no formal means by which to enforce the IHR.”); Gostin, supra note 39 (“The frightening truth is that the WHO has no real power”).
are no direct funds, even for the poorest nations, accompanying national endorsements of the IHRs. Nor do the IHRs require member countries to build national surveillance capacity. Furthermore, as a concession to national sovereignty, the IHRs specifically allow countries to legislate in pursuit of their own health policies under principles of national law, notwithstanding inconsistencies with the Regulations’ standards. As discussed below, this is exactly what countries have done.

B. COUNTRY-SPECIFIC INTERNATIONAL DECLARATIONS

Within any country there is a slate of emergency laws and policies that may be triggered through declarations of states of emergency, disaster, public health emergency, or other terms. In the United States, multiple federal laws address emergencies, including those arising from public health threats. Federal laws authorize declarations of (1) a general emergency, (2) a disaster, and (3) a public health emergency. Declarations of emergency or disaster authorized by the

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72. See IHR (2005), at arts. 5, 13 (suggesting that countries develop, strengthen, and maintain core public health capacities to detect, assess, notify, and report events, and to respond promptly and effectively to public health risks and emergencies of international concern); see also Gostin, supra note 5, at 2377 (“[P]recious little has been devoted to build [surveillance and response] capacity in poor countries.”).

73. Fidler & Gostin, supra note 52, at 88 (“The new IHR also contain no obligations on states parties to provide financial and technical resources to support capacity-building.”).

74. See Fidler, supra note 4 (“The IHR 2005 do not preclude States Parties from implementing measures that achieve a greater level of health protection than WHO temporary recommendations . . . .”)

75. While there are important distinctions between the terms disaster, emergency, public health emergency, or like terms as used in existing statutory or regulatory frameworks, this article does not attempt to delineate these distinctions for the purposes of emergency responses to public health threats like H1N1. For more information concerning U.S. distinctions among these terms, see Hodge & Anderson, supra note 1, at 255–69.

76. See id. at 255–63 (documenting the extensive range of federal laws implicated in national emergencies).

77. In general, the President can declare a state of emergency under the Stafford Act only after a state governor requests federal assistance “to save lives and to protect property and public health and safety, or to lessen or avert the threat of a catastrophe . . . .” 42 U.S.C. §§ 5122(1), 5191 (2006). What constitutes an emergency is broad and may apply to a wide range of incidents. For example, President Clinton declared a state of emergency in 2000 to
Robert T. Stafford Disaster Relief and Emergency Assistance Act,79 must be issued by the President.80 Pursuant to the Public Health Service Act,81 the declaration of a public health emergency may be issued by the Secretary of the Department of Health and Human Services (DHHS).82 In response to the national threat of H1N1, DHHS declared a state of public health emergency on April 26, 2009.83 Only later, on October 23, 2009, did President Obama declare a state of national emergency.84 Together, these declarations changed the legal
landscape for H1N1 response efforts nationally,\textsuperscript{85} authorizing various federal powers to acquire and distribute resources and requiring federal agencies like DHHS and the Department of Homeland Security (DHS)\textsuperscript{86} to coordinate national response efforts.

Other countries’ emergency declarations in response to H1N1 empower their emergency management, public health, and law enforcement authorities to respond in different ways. The table below provides a brief synopsis of select countries’ emergency declarations and resulting legal powers.

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Date & Country & Declaration & Select Authorization of Powers \\
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4/25/09 & Mexico & Emergency Decree & Government may regulate transportation; suspend public events; enter any home or building for inspection; order quarantines; and assign authorities and health professionals to conduct certain tasks. \textit{Thomas Black, Mexico’s Calderon Declares Emergency amid Swine Flu Outbreak}, BLOOMBERG.COM, Apr. 25, 2009, \\
\hline
\end{tabular}
\caption{Select Examples of National Emergency Declarations in Response to H1N1}
\end{table}

\textsuperscript{85} See James G. Hodge, Jr. & Brooke Courtney, \textit{Assessing the Legal Standard of Care in Public Health Emergencies}, 303 J. AM. MED. ASS’N 361, 361 (2010) (stating that after declarations of a national emergency and public health emergency in response to H1N1, DHHS was authorized “to waive or conditionally set aside or modify certain federal program requirements and disable federal law requiring hospitals to screen patients seeking emergency services on site”).

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<td>4/26/09</td>
<td>United States</td>
<td>Public Health Emergency</td>
<td>DHHS may take such action as appropriate including: making grants; providing awards for expenses; entering into contracts; and conducting and supporting investigations into the cause, treatment, or prevention of a disease. <a href="http://www.hhs.gov/secretary/phe_swh1n1.html">http://www.hhs.gov/secretary/phe_swh1n1.html</a> (last visited Apr. 8, 2010).</td>
<td><a href="http://bloomberg.com/apps/news?id=20670001&amp;sid=aEsNo">http://bloomberg.com/apps/news?id=20670001&amp;sid=aEsNo</a> wnABJ6Q&amp;pid=20601087 (last visited Apr. 8, 2010).</td>
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<td>Renewed</td>
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<td>4/28/09</td>
<td>Costa Rica</td>
<td>National Health Emergency</td>
<td>Government may reinforce prevention, vigilance, and medical attention; health officials may issue restrictive measures.</td>
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<td>8/17/09</td>
<td>Malaysia</td>
<td>National Health Emergency</td>
<td>Government may order any person to treatment, immunization, isolation or observation, as well as order the destruction of structures that are incapable of being thoroughly disinfected. A(H1N1): 2 More Die, Health Curfew if Mortality Rate Reaches 0.4pc, STAR ONLINE, Aug. 17, 2009,</td>
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Of those countries that formally declared states of emergency, most relied on general emergency powers tailored to address specific public health threats. Other countries, including Afghanistan, Costa Rica, Malaysia, and the United States, declared specific states of health emergency. The timing and scope of these general and “health-related” emergency declarations are noteworthy. Not surprisingly, Mexico was the first country to issue an emergency decree on April 25, 2009.87 With multiple, identified deaths from H1N1 influenza already documented, Mexico’s President Felipe Calderon pledged to take “all the measures necessary to respond with efficiency and opportunity to this respiratory epidemic.”88 Governmental offices, schools, business, theaters, and museums were closed for over two weeks.89 The President’s decree also bestowed additional authority to control transportation, enter private property, and order quarantines.90

Following the U.S. declaration of public health emergency

89. See id.
90. Id.
on April 26, 2009. Colombia issued a state of emergency on April 27 despite not identifying a single case of H1N1 in the country. Colombian authorities in Bogota used their authority and infusion of new resources stemming from the declaration to prepare for anticipated cases. After finding only two domestic cases of H1N1 infection, Costa Rica declared a national health emergency on April 28, 2009, authorizing the expenditure of five million dollars for public health efforts and recommending that citizens cancel trips to Mexico. Like Columbia, Ecuador issued a preemptive state of emergency on April 29 despite the lack of confirmed cases. Unlike Columbia, Ecuador immediately instituted a policy prohibiting flights to and from Mexico and barring foreigners who had recently visited Mexico from entering the country. Nicaragua President Daniel Ortega issued a largely preemptive decree of health emergency on April 29, 2009, noting “[t]he threat is for everyone, no country is exempt[.]” A month later, on May 29, Venezuela issued its declaration of emergency after a single case was confirmed.

While these countries largely took a preventive approach to H1N1 influenza in quickly declaring states of emergency prior to or soon after detecting initial cases of H1N1, others largely waited to assess the spread and impact of H1N1. Chile did not

91. See Press Release, Johnson, supra note 6.
93. See id.
97. Id.
99. Venezuela: Venezuela Declares State of Emergency to Avoid A/H1N1 Spread, THAI PRESS REPORTS, June 1, 2009 (on file with author).
issue its health emergency decree until June 14, 2009 after identifying two H1N1 deaths and over 2,300 confirmed cases.\footnote{Chile Decrees Emergency Measures After A/H1N1 Infections Reach 2,337, CHINA VIEW, June 14, 2009, http://news.xinhuanet.com/english/2009-06/15/content_11544285.htm (last visited Apr. 8, 2010).} The Yemeni Ministry of Health declared a state of emergency on June 16 in response to its initial cases of H1N1 infections.\footnote{First Swine Flu Case in Yemen Confirmed; Ministry of Health Declares Emergency Nationwide, YEMEN POST, June 16, 2009, available at http://www.yemenpost.net/Detail123456789.aspx?ID=100&SubID=901&MainCat=8; World Health Organization, New Influenza A (H1N1) in Eastern Mediterranean Region Number of Laboratory-Confirmed Cases and Deaths Reported to WHO, available at http://reliefweb.int/rw/fullmaps_sa.nsf/luFullMap/8B3780DA9A323023C12576030040D7DA/$File/map.pdf?OpenElement (last visited May 4, 2010).} Health authorities in Yemen targeted air travel as part of its prevention strategy, vowing, “[n]o international air passenger should be exempt from screening.”\footnote{Salma Ismail, Yemen Reports Five Swine Flu Cases, YEMEN TIMES, June 17, 2009, http://yementimes.com/defaultdet.aspx?SUB_ID=30051 (last visited Apr. 8, 2010).} With over 4,200 confirmed cases, Malaysian authorities declared a state of national health emergency on August 17, 2009. Its declaration generated a series of systematic responses designed to mitigate the further spread of H1N1 influenza.\footnote{Himanshu Bhatt, A(H1N1): National Health Emergency Declared, SUN2SURF: MALAYSIAN SOURCE FOR NEWS & LIFESTYLE, Aug. 17, 2009, available at http://www.thesundaily.com/article.cfm?id=37019.} These included various travel warnings, requirements for citizens with flu-like symptoms to wear face masks in public, and self-quarantine as needed. Authorities suggested that additional measures, including a “health curfew” as proposed in Mexico may be implemented.\footnote{Afghanistan Declares H1N1 Emergency, Shuts Schools, REUTERS, Nov. 2, 2009, available at http://www.reuters.com/article/idUSTRE5A115V20091102.} Torn by war, violence, and poverty in the modern era, Afghan authorities declared a state of health emergency on November 2, 2009 after registering more than 300 positive cases of H1N1 in the country.\footnote{Maryn McKenna & Lisa Schnirring, CDC, States Weigh Usefulness of School Closures, CIDRAP NEWS, May 4, 2009,} even though such a social distancing strategy was rejected by CDC for implementation in the United States.\footnote{Id.}
Considerable, additional legal activity in response to the H1N1 pandemic occurred at the subnational level. In the United States, since September 11, 2001, at least twenty-seven states\textsuperscript{108} have legislatively defined and authorized the declaration of a “public health emergency.”\textsuperscript{109} Many of these states’ laws mirror provisions in the Model State Emergency Health Powers Act (MSEHPA),\textsuperscript{110} drafted by the Centers for Law and the Public’s Health following the anthrax exposures in the Fall of 2001.\textsuperscript{111} MSEHPA offers flexible, model language setting forth potential powers for responding to a public health emergency.\textsuperscript{112} During the H1N1 outbreak, governors or other

http://www.cidrap.umn.edu/cidrap/content/influenza/panflu/news/may0409schools-jw.html (last visited Apr. 8, 2010) (reporting that school closures were no longer effective at preventing spread of the virus).


\textsuperscript{110} MODEL STATE EMERGENCY HEALTH POWERS ACT (Ctrs. for Law & the Public’s Health at Georgetown & Johns Hopkins Univs., 2001).

\textsuperscript{111} Gostin et al., supra note 109, at 622–23.

\textsuperscript{112} See MODEL STATE EMERGENCY HEALTH POWERS ACT § 104(m). “Public health emergency” is defined as:

An occurrence or imminent threat of an illness or health condition that: (1)
leaders in at least twelve states formally declared states of emergency or public health emergency. Hong Kong, China issued its own declaration of public health emergency modeled after MSEHPA on May 1, 2009 pursuant to its Prevention and Control of Disease Ordinance. China’s Shandong Province declared a “second-level health emergency” on May 13, 2009. During the month of August, at least five Indian states and territories (Maharashtra, Tamil Nadu, Haryana) believed to be caused by . . . (i) bioterrorism; (ii) the appearance of a novel or previously controlled or eradicated infectious agent or biological toxin; . . . and (2) poses a high probability of . . . (i) a large number of deaths in the affected population; (ii) a large number of serious or long-term disabilities in the affected population; or (iii) widespread exposure to an infectious or toxic agent that poses a significant risk of substantial future harm to a large number of people in the affected population.

Id. During a public health emergency declared pursuant to MSEHPA, (1) government is vested with new and expedited powers such as the ability of a state’s governor to suspend the operation of existing laws that may interfere with effective emergency responses, id. at § 403(a); (2) individuals are entitled to enhanced public health services, such as expedited access to medicines, vaccines, or other resources, id. at § 505(d); (3) responders may be authorized to act in ways that differ from non-emergency situations, including practicing medicine with out-of-state licenses, id. at § 608; and, (4) volunteers and other emergency responders are protected from some forms of civil liability, id. at § 804(b).

Id. Although these states represent a minority of U.S. jurisdictions, their combined populations comprise over 50% of the U.S. population. See U.S. CENSUS BUREAU, STATISTICAL ABSTRACT OF THE UNITED STATES 2010, at tbl.13 (2010).

114. Prevention and Control of Disease Ordinance, (2008) Cap. 599, § 8. (H.K.), available at http://www.legislation.gov.hk/blis_ind.nsf/CurAllEngDoc/0B97283F997976774823749F003142D1?OpenDocument. Pursuant to this ordinance, modeled in part on MSEHPA, Hong Kong’s Chief Executive in Council may make regulations to prevent, combat, or alleviate the effects of a public health emergency. Id. Regulations may require: (1) disclosure by individuals of information that is relevant to handling the public health emergency; (2) disclosure by public officers to the public of information that is relevant to handling the public health emergency; (3) requisition of property; and (4) “appointment of any person to act as a medical or health professional, the control of such appointed person, and deeming such appointed person to be registered under any enactment[].”


116. Maharashtra Invokes Epidemic Act to Check Swine Flu, DAILY NEWS
Delhi,119 and Gujarat120 invoked emergency provisions of their respective public health or epidemic disease acts.121

While these countries’ national and regional emergency declarations provide examples of the types of emergency legal powers that were instituted in response to H1N1, most WHO member countries did not declare any formal state of emergency despite WHO’s rapid declaration of a PHEIC. Instead, they relied on implementation of national or regional pandemic flu plans, use of existing domestic public health laws and policies, and guidance from WHO, border countries, and others to lead their response efforts. Notable is the divergence in legal and policy approaches to pandemic flu responses among the majority of WHO member states as contrasted with select nations that instituted emergency legal responses. Emergency declarations typically authorize countries to respond domestically to public health threats in expedited ways. Whether public health legal responses among countries that declared emergencies exceeded or were more (or less) effective in controlling the spread of H1N1 than countries which did not


120. Modi Govt. Invokes Epidemic Act, as 9 Fresh Cases of H1N1 Reported, THAINDIAN NEWS, Aug. 19, 2009, http://www.thaindian.com/2009/10/07/stories/2009100758310900.htm (last visited Apr. 8, 2010) (reporting that authorities at the private hospital have been questioned as to why the patient was discharged and not treated after he was initially on a ventilator).
similarly declare emergencies has not been assessed.

III. GLOBAL HEALTH LAW IN REAL-TIME

Legal responses to global health emergencies are unpredictable because national emergency laws, even when declared, feature different legal approaches and appreciation for global responsibilities. The IHRs come as close as possible to a “one size fits all” approach to controlling infectious diseases that pose significant transnational public health threats. The IHRs, however, clearly allow for dissimilar public health practices among sovereigns.\textsuperscript{122} So they must, at least until member countries divest their national sovereignty to bestow stronger enforcement powers on WHO\textsuperscript{123} similar to powers possessed by the WTO.\textsuperscript{124} Lacking an enforceable international code for all nations as to how to respond in real time, the default globally is to defer to specific WHO member countries’ emergency and public health laws. This is not always a weakness. Though the public health threat of a highly communicable virus like H1N1 may not respect boundaries, it does not impact countries equally. Industrialized nations with sophisticated national health systems may not require the same type of public health legal responses to control the spread of disease that are needed in developing countries lacking resources and personnel to test, screen, and treat individuals. To the extent emergency laws focus on flexibility and real-time responsiveness, they tend to offer multiple options without requiring specific actions.\textsuperscript{125} Their strength is how they can encourage and authorize innovative, non-traditional responses;\textsuperscript{126} their weakness is how their application can lead to global injustices, abuses, and confusion during emergencies.\textsuperscript{127}

\textsuperscript{122} See Fidler, \textit{supra} note 4.
\textsuperscript{123} Sturtevant et al., \textit{supra} note 53, at 120 (“Legal enforcement of the IHR remains problematic in the absence of sanctions . . . .”).
\textsuperscript{124} See, \textit{e.g.}, \textsc{World Trade Org.}, \textsc{Understanding the WTO} 55–58 (4th ed. 2008) (explaining that the WTO can impose sanctions on states that do not comply with the WTO dispute settlement process).
\textsuperscript{125} See Hodge, \textit{supra} note 1, at 627–29.
\textsuperscript{126} See Hodge & Anderson, \textit{supra} note 1, at 272.
\textsuperscript{127} See Gostin, \textit{supra} note 5, at 2376 (suggesting that the global response to H1N1 raises “serious questions of global justice, as Mexicans have become subject to stigma and discrimination”).
Dissimilarities inherent in sovereign emergency laws are not the problem per se until a localized public health threat like H1N1 globalizes and requires transnational legal responses. National legal responses during the earliest stages of the H1N1 pandemic may respond to domestic objectives but may also devalue the need for global responses in real-time events. The ease of transmissibility of conditions like H1N1 in a global economy exposes these flaws. Even the strongest national public health system capable of initially controlling disease within a country’s borders cannot contain threats that arise outside its sovereign domain.

The missing elements underlying the global control of infectious diseases like H1N1 is clearly not a lack of national legal powers nor a lack of global health strategies. Most country’s domestic emergency powers are sufficiently broad to address their specific public health objectives, although they may be used in invidious ways contrary to public health practice. As noted above, the majority of WHO member states did not choose to evoke formal emergency powers in response to H1N1, relying instead on existing public health powers and pandemic flu preparedness plans. Although “the new IHR[s] are no ‘magic bullet’ for global health problems,”128 they do offer global standards that most nations respect, at least superficially.129 What is truly lacking, however, is the willingness and capacity of leaders and other actors nationally to implement strategic responses to protect global health in the face of emerging international threats. What I define as “global legal triage,” refers to efforts of international and national leaders and others to identify, prioritize, and solve transnational public health legal issues to improve global health outcomes in real-time during international emergencies.130

Global legal triage necessitates legal counsel and leaders primarily at the international or national levels to generate legal solutions to transnational issues that impact global health in real-time emergencies. Questions of law and governance relating to global allocation of scarce resources and personnel,
limitations on individual travel or entry, or restrictions on commerce and trade require strategic responses that reflect global health priorities, not just national ones. Addressing these global legal challenges in actual emergencies is hampered by the altered legal environment inherent in national emergency declarations, the exigencies of protecting domestic public health, and the entrenchment that occurs when political leaders face unsure and potentially catastrophic threats to their populations. Primary attention to the public health impacts on domestic populations is understandably at the center of national efforts. Yet when national legal responses fail to match international infectious disease standards set forth in the IHRs, public health risks initially addressed in one country inevitably transfer to other populations. Countries that institute significant emergency response efforts to stymie the spread of disease may initially proclaim hollow victories. Over the long-term, however, infectious disease “never dies or disappears for good.”131 In the case of H1N1, short-sightedness in addressing domestic public health concerns to the detriment of international health may negatively impact the health of the same domestic populations as the virus (in its original or mutated form) spreads globally.

The 2004–2005 SARS epidemic, which motivated fundamental reforms to the IHRs,132 provides another example. Though aware of the existence of an unknown and potentially deadly infectious agent spreading among local populations, Chinese authorities initially attempted to withhold surveillance data and isolates from WHO and other global partners.133 The most favorable interpretation of these failures is that SARS was viewed by Chinese authorities as a localized problem that posed no threat to others. The more likely view is that China

132. See Fidler & Gostin, supra note 52, at 85 (“The outbreak of [SARS] in 2003 accelerated the IHR revision process.”).
133. See Lawrence O. Gostin et al., Ethical and Legal Challenges Posed by Severe Acute Respiratory Syndrome: Implications for the Control of Severe Infectious Disease Threats, 290 J. AM. MED. ASS’N 3229, 3233 (2003); accord Fidler & Gostin, supra note 52, at 88 (citing DAVID P. FIDLER, INTERNATIONAL LAW AND INFECTIOUS DISEASES (1999)) (“States parties often violated the old IHR by failing to report cases of diseases subject to the Regulations because they feared other countries would implement economically damaging trade or travel restrictions.”).
intentionally withheld data to avoid the stigma that eventually followed, leading to billions of dollars of damages and lost revenues as nations and citizens responded by avoiding Chinese goods and travel. In the end, both China and the global health community suffered from this initial, unethical decision as SARS spread across China and to multiple other countries causing needless morbidity and mortality.

The strategic legal goal of pandemic flu response efforts cannot be grounded solely in protectionism, but rather must adequately prioritize the health of all populations. This is particularly relevant in decisions to allocate scarce resources. WHO, member countries, and numerous public- and private-sector entities have issued guidelines on allocating scarce resources in emergencies that are grounded in principles of justice and fairness. Ethical models for emergency-resource distributions have been widely proposed. To be purposeful, these allocation models must be supported by legal principles in real-time emergencies. For example, even as the United States experienced a shortage of available vaccines and antivirals in the midst of the H1N1 pandemic and despite some opposition, President Obama pledged donations of existing U.S. supplies in mid-September 2009 to global response efforts.


135. Id.


coordinated by WHO. Additional countries including Australia, Brazil, Canada, France, Italy, New Zealand, Norway, Switzerland, and the United Kingdom similarly donated vaccines. Though laudable, the objective was not just to share vaccines to stymie the spread and impact of the disease elsewhere, but also to limit the impact domestically by controlling the threat internationally. Only through these types of legal decisions, grounded in affirmative foreign relations and theories of global justice, will it be possible to circumvent the most serious effects of global public health threats like H1N1 in the future.

IV. CONCLUSION

Facing a novel, albeit relatively mild viral threat in H1N1, countries responded in disparate ways, buttressed by incongruent emergency laws and decisions as to when, how, or if to use them. Whether in ignorance or outright refusal, countries’ legal and public health responses did not always conform to WHO’s guidance through its invocation of the IHRs. Proven public health interventions were negated. Human rights abuses arose. Economic impacts were realized. And H1N1 influenza spread like wildfire. This first major test of the global health system in the face of a global health threat does not bode well for future outbreaks.

Threats like H1N1 or other highly communicable diseases cannot be completely snuffed out through existing, or likely future, global health initiatives. We still cannot prevent pandemics that arise naturally as part of organized society. However, when disease spreads because of failures in global health strategies inhibited by legal principles of national sovereignty and limited views of the roles of government to


protect only domestic populations, society can no longer blame a virus completely for its human and economic losses. Not all governments must respond alike to pandemic threats. To the contrary, public health threats impact populations differently depending on multiple factors. Rather, when they respond legally, they must be mindful of the global health impacts of their decisions. Tepid acceptance of international disease control standards like the IHRs are insufficient. Countries must not only embrace global health goals in response to pandemic threats but also act consistent with them. The dual global health legal challenges of this century are (1) to reform public health laws at every level of government to better reflect shared, global objectives, and (2) then be prepared to apply them through the practice of global legal triage.