



The 2009 Influenza Pandemic: Selected Legal Issues

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Summary

On June 11, the World Health Organization (WHO) raised the level of influenza pandemic alert to phase 6, which indicates the start of an actual pandemic. This change reflects the spread of the influenza A(H1N1) virus, not its severity. Although currently the pandemic is of moderate severity with the majority of patients experiencing mild symptoms and making a rapid and full recovery, this experience could change. It is timely to examine the legal issues surrounding this public health threat. This report provides a brief overview of selected legal issues including emergency measures, civil rights, liability issues, and employment issues.

There are a number of emergency measures which may help to contain or ameliorate an infectious disease outbreak. The Public Health Service Act and the Stafford Act contain authorities that allow the Secretary of Health and Human Services and the President, respectively, to take certain actions during emergencies or disasters. While the primary authority for quarantine and isolation in the United States resides at the state level, the federal government has jurisdiction over interstate and border quarantine. Border entry and border closing issues may arise in the context of measures designed to keep individuals who have, or may have, influenza A(H1N1) from crossing U.S. borders. Aliens with the H1N1 virus can be denied entry, but American citizens cannot be excluded from the United States solely because of a communicable disease, although they may be quarantined or isolated at the border for health reasons. Airlines have considerable discretion to implement travel restrictions relating to the safety and/or security of flights and other passengers and crew. In addition, the federal government has broad legal authority to regulate and control the navigable airspace of the United States in dealing with incidents involving communicable diseases. States have authority to initiate other emergency measures such as mandatory vaccination orders and certain nonpharmaceutical interventions such as school closures, which may lessen the spread of an infectious disease. The International Health Regulations adopted by the World Health Organization in 2005 provide a framework for international cooperation against infectious disease threats.

The use of these emergency measures to contain the 2009 influenza pandemic may raise a classic civil rights issue: to what extent can an individual's liberty be curtailed to advance the common good? The U.S. Constitution and federal civil rights laws provide for individual due process and equal protection rights as well as a right to privacy, but these rights are balanced against the needs of the community.

Liability issues may become particularly important during the 2009 influenza pandemic. The Public Readiness and Emergency Preparedness Act limits liability with respect to the use of countermeasures for pandemic flu or other public health threats. A patchwork of federal and state laws exists which generally operates to protect volunteers, which may include volunteer health professionals (VHPs) under certain circumstances, and there are also laws that trigger liability protection specifically for VHPs.

Questions relating to employment are among the most significant issues presented by an influenza pandemic, since, if individuals fear losing their employment or their wages, compliance with public health measures such as social distancing and isolation or quarantine may suffer. It would seem possible for a court to conclude that the isolation or quarantine of individuals during a pandemic serves the public good and that the termination of individuals who are isolated or quarantined violates public policy. Employees may also have some job protection under the Family and Medical Leave Act.

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Introduction

On June 11, the World Health Organization (WHO) raised the level of influenza pandemic alert to phase 6, the highest level, which indicates the start of an actual pandemic.¹ This change in alert level reflects the spread of the virus, not its severity. In late April 2009, human cases of infection with a novel influenza A(H1N1) virus were identified. Since then, the virus has become widespread. Although currently the pandemic is of moderate severity with the majority of patients experiencing mild symptoms and making a rapid and full recovery, the virus and its effects may change over time. It is timely to examine the legal issues surrounding this public health threat.² This report provides a brief overview of selected legal issues including emergency measures, civil rights, liability issues, and employment issues.

Emergency Measures

Emergency Authorities and Declarations Under the Public Health Service Act and the Stafford Act³

Public Health Emergency Authorities

In response to public health threats, the Secretary of the Department of Health and Human Services (HHS) can provide a considerable degree of assistance to states through the Secretary's general, non-emergency authorities. For example, upon the request of a state health official, and without the involvement of the President, the Centers for Disease Control and Prevention (CDC) can provide financial and technical assistance to states for outbreak investigation and disease control activities. These activities are carried out under the Secretary's general authority to assist states at 42 U.S.C. §§ 243c and 247b.

There are also a number of authorities in the Public Health Service (PHS) Act that allow the Secretary of HHS to take certain actions in the face of a “public health emergency.” The principal authority is in Section 319 of the PHS Act, 42 U.S.C. § 247d(a), which states that

If the Secretary determines, after consultation with such public health officials as may be necessary, that—(1) a disease or disorder presents a public health emergency; or (2) a public health emergency, including significant outbreaks of infectious diseases or bioterrorist attacks, otherwise exists, the Secretary may take such action as may be appropriate to respond to the public health emergency, including making grants, providing awards for expenses, and entering into contracts and conducting and supporting investigations into the

¹ Dr. Margaret Chan, Director-General of the World Health organization, “World Now at the Start of 2009 Influenza Pandemic,” http://www.who.int/mediacentre/news/statements/2009/h1n1_pandemic_phase6_20090611/en/index.html.

² For information on the latest number of cases, medical information, and U.S. Government actions, see <http://www.cdc.gov/swineflu/> and <http://www.dhs.gov/xprepresp/programs/swine-flu.shtm>. See also CRS Report R40554, *The 2009 Influenza Pandemic: An Overview*, by Sarah A. Lister and C. Stephen Redhead.

³ This section was written by Kathleen S. Swendiman and Edward C. Liu.

cause, treatment, or prevention of a disease or disorder as described in paragraphs (1) and (2).⁴

The then-Acting HHS Secretary issued a nationwide public health emergency declaration in response to human infections from the influenza A(H1N1) virus on April 26, 2009. Making such a determination enables the Secretary to take three types of actions that can be especially useful for dealing with an emerging influenza outbreak. First, such a determination authorizes the Secretary to draw from a special emergency fund.⁵ Second, it enables the Secretary to implement an authority in the Federal Food, Drug, and Cosmetic Act—the so-called Emergency Use Authorization—allowing for the use of unapproved medical treatments and tests, under specified conditions, if needed during an incident.⁶ Third, if there is a concurrent declaration pursuant to the Stafford Act⁷ or the National Emergencies Act,⁸ the Secretary is authorized to waive or modify a number of administrative requirements, principally involving reimbursement through the Medicare and Medicaid programs, in order to facilitate the provision of health care items and services by providers in any geographic area subject to the concurrent declarations.⁹ Generally, these waivers and modifications can assist patients who must be relocated due to the inaccessibility of health care facilities in the emergency area, allow beneficiaries to receive services despite having lost their documentation of eligibility, and allow providers to provide services in alternate temporary facilities. Specifically, the Secretary may take some or all of the following actions:

- Waive conditions of participation, certification requirements, program participation, and pre-approval requirements under Medicare, Medicaid, or the Children’s Health Insurance Program;¹⁰
- Permit health care providers to provide care under Medicare, Medicaid, or the Children’s Health Insurance Program, even if they are not licensed by the state with jurisdiction over the emergency area;¹¹

⁴ The Secretary is required to provide written notice of determinations under this section to Congress within 48 hours, but is not required to publish notice of such determinations in the *Federal Register*. 42 U.S.C. § 247d(a).

⁵ The Public Health Emergency Fund does not currently have any monies available. For more information, see CRS Report RL33579, *The Public Health and Medical Response to Disasters: Federal Authority and Funding*, by Sarah A. Lister.

⁶ On April 27, 2009, the Food and Drug Administration issued four Emergency Use Authorizations in response to requests from the CDC to make available certain drugs, diagnostic tests and respiratory protection devices. See statement of Joshua M. Sharfstein, Acting Commissioner, FDA, before the Committee on Energy and Commerce, Subcommittee on Health, April 30, 2009, 111th Cong., 1st Sess. Washington, D.C. See also the FDA’s website at <http://www.fda.gov/oc/opacom/hottopics/H1N1Flu/> and the CDC’s website at <http://www.cdc.gov/h1n1flu/eua/>, for more information.

⁷ 42 U.S.C. § 5121 *et seq.*

⁸ 50 U.S.C. § 1601 *et seq.* The National Emergencies Act (NEA) authorizes the President to declare a national emergency and activate existing statutory provisions that authorize the exercise of special or extraordinary power. The NEA does not provide any specific emergency authority on its own, but relies upon emergency authority provided in other statutes. For example, a national emergency declaration under the NEA could authorize the Secretary of HHS to deploy officers in the Commissioned Corps of the Public Health Service to agencies outside of HHS in response to an urgent or emergency public health care need. Emergency statutory provisions are not activated automatically, but must be specifically identified in the President’s declaration before they may be given effect. For more information on the National Emergencies Act, and declarations made under it, see CRS Report 98-505, *National Emergency Powers*, by L. Elaine Halchin.

⁹ 42 U.S.C. § 1320b-5(b).

¹⁰ 42 U.S.C. § 1320b-5(b)(1).

- Waive sanctions under the Emergency Medical Treatment and Active Labor Act (EMTALA) for certain transfers or redirections of patients away from hospital emergency rooms;¹²
- Waive sanctions for violations of the Stark law, which prohibits certain self-referrals by physicians;¹³
- Extend deadlines and other timetables for required activities;¹⁴
- Waive limitations on payments under Medicare Advantage for care and services provided by out-of-network providers;¹⁵ or
- Waive sanctions and penalties for violations of the HIPAA Privacy Rule such as the use of protected health information for hospital directories, the disclosure of protected health information to patients' families and friends, the distribution of health care providers' and insurers' privacy policies to patients, and individuals' rights to request restrictions, privacy restrictions, or confidential communications.¹⁶

These waivers and modifications may be retroactively applied by the Secretary to the beginning of the period during which the concurrent declarations were in effect, and will generally remain in effect until either of the underlying emergency declarations ends or sixty days have elapsed since the date on which notice of the waivers or modifications was published.¹⁷

With respect to the 2009 influenza pandemic, the Public Health Emergency Fund is available (but is currently unfunded)¹⁸ and Emergency Use Authorizations have been granted by FDA.¹⁹ However, the Secretary's waiver and modification authority has not been activated because there is no concurrent presidential declaration under either the Stafford Act or the National Emergencies Act.

(...continued)

¹¹ 42 U.S.C. § 1320b-5(b)(2). Providers must have equivalent licensing in another state and must not be affirmatively excluded from practicing in the emergency area.

¹² 42 U.S.C. § 1320b-5(b)(3). In the event of a pandemic infectious disease, patients can be relocated pursuant to a state's pandemic preparedness plan, if one exists. 42 U.S.C. § 1320b-5(b)(3)(B)(ii). For more information on EMTALA's requirements, see CRS Report RS22738, *EMTALA: Access to Emergency Medical Care*, by Edward C. Liu.

¹³ 42 U.S.C. § 1320b-5(b)(4). For more information on the Stark law, see CRS Report RS22743, *Health Care Fraud and Abuse Laws Covering Medicare and Medicaid: An Overview*, by Jennifer Staman, at 3-5.

¹⁴ 42 U.S.C. § 1320b-5(b)(5).

¹⁵ 42 U.S.C. § 1320b-5(b)(6).

¹⁶ 42 U.S.C. § 1320b-5(b)(7). For more information on HIPAA enforcement, see CRS Report RL33989, *Enforcement of the HIPAA Privacy and Security Rules*, by Gina Stevens.

¹⁷ 42 U.S.C. § 1320b-5(e)(1). The Secretary may extend the effect of any waivers or modifications in sixty-day increments. 42 U.S.C. § 1320b-5(e)(2).

¹⁸ See *supra* note 5.

¹⁹ See *supra* note 6.

Stafford Act Declarations

A presidential declaration under the Stafford Act triggers federal emergency authorities that are independent of the Secretary's public health emergency authorities. Declarations under the Stafford Act fall into two categories: emergency declarations and major disaster declarations. As of this point in time, there have been no Stafford Act declarations pertaining to the 2009 influenza pandemic. A presidential emergency declaration under the Stafford Act authorizes the President to direct federal agencies to support state and local emergency assistance activities; coordinate disaster relief provided by federal and non-federal organizations; provide technical and advisory assistance to state and local governments; provide emergency assistance through federal agencies; remove debris through grants to state and local governments; provide assistance to individuals and households for temporary housing and uninsured personal needs; and assist state and local governments in the distribution of medicine, food, and consumables.²⁰ The total amount of assistance available is limited in an emergency declaration to \$5 million, "unless the President determines that there is a continuing need; Congress must be notified if the \$5 million ceiling is breached."²¹

Emergency declarations under the Stafford Act in the event of an outbreak of infectious disease are not unprecedented. In 2000, the detection of West Nile virus in New York and New Jersey was used as the basis of an emergency declaration under the Stafford Act.²² However, there may be uncertainty regarding whether a flu pandemic, or any outbreak of infectious disease, would be eligible for *major disaster* assistance under the Stafford Act.²³

A major disaster declaration authorizes the President to offer all the assistance authorized under an emergency declaration, and further authorizes funds for the repair and restoration of federal facilities, unemployment assistance, emergency grants to assist low-income migrant and seasonal farm workers, food coupons and distribution, relocation assistance, crisis counseling assistance and training, community disaster loans, emergency communications, and emergency public transportation.²⁴ Additionally, the total amount of assistance provided in a major disaster declaration is not subject to a ceiling in the same way as under an emergency declaration.

The authority of the President to declare a major disaster under the Stafford Act in response to a flu pandemic may be subject to some debate and likely depends upon whether a flu pandemic would qualify as a "natural catastrophe" under the Stafford Act. FEMA has historically excluded biological incidents from major disaster declarations under the Stafford Act, but executive policy

²⁰ 42 U.S.C. § 5192. Although there are currently significant stockpiles of antiviral medications, if there are large numbers of individuals infected with H1N1, the demand for antivirals, potential vaccines, and other medical supplies such as ventilators may exceed the supply. This potential imbalance has led to recommendations for priorities for medical resources for certain categories of individuals. For a discussion of these recommendations see CRS Report RL33381, *The Americans with Disabilities Act (ADA): Allocation of Scarce Medical Resources During a Pandemic*, by Nancy Lee Jones.

²¹ 42 U.S.C. § 5193(b). See also CRS Report RL33053, *Federal Stafford Act Disaster Assistance: Presidential Declarations, Eligible Activities, and Funding*, by Keith Bea, at 13-15.

²² CRS Report RL33579, *The Public Health and Medical Response to Disasters: Federal Authority and Funding*, by Sarah A. Lister, at n.10 and accompanying text; and 65 Fed. Reg. 63589, 67747.

²³ See CRS Report RL33579, *The Public Health and Medical Response to Disasters: Federal Authority and Funding*, by Sarah A. Lister, at 9-11. For a more detailed discussion see CRS Report RL34724, *Would an Influenza Pandemic Qualify as a Major Disaster Under the Stafford Act?*, by Edward C. Liu.

²⁴ 42 U.S.C. §§ 5172-5187.

under the Bush administration appeared to consider biological incidents, or at least flu pandemics, to be eligible for major disaster assistance.²⁵

Although there are differences between the types and amounts of assistance that are authorized by an emergency or major disaster declaration, either declaration would activate the Secretary's waiver or modification authority,²⁶ if concurrent with a public health emergency declaration.

International Health Regulations (IHR)²⁷

Overview of the IHR

In May 2005, the World Health Assembly adopted a revision of its 1969 International Health Regulations, giving a new mandate to the World Health Organization (WHO) and member states to increase their respective roles and responsibilities for the protection of international public health.²⁸ The IHR(1969) had focused on just three diseases (cholera, plague, and yellow fever). In addition, compliance of State Parties²⁹ with the IHR(1969) was uneven, a result of, among other things, resource limitations in poorer countries, and political factors, such as the reluctance to announce the presence of a contagious disease within one's borders and face economic and other consequences.³⁰

The IHR(2005), which entered into force in June 2007, have broadened the scope of the 1969 regulations by addressing existing, new, and re-emergent diseases, as well as emergencies caused by non-infectious disease agents.³¹ The IHR(2005) also include provisions regarding designated national points of contact, definitions of core public health capacities, disease control measures such as quarantine and border controls, and others. The IHR(2005) require WHO to recommend, and State Parties to use, control measures that are no more restrictive than necessary to achieve the desired level of health protection.

The IHR were agreed upon by a consensus process among the member states, and represent a balance between sovereign rights and a commitment to work together to prevent the international spread of disease. The IHR(2005) are binding on all WHO member states as of June 15, 2007, except for those that have rejected the regulations or submitted reservations.³² While the IHR(2005) contain mechanisms such as negotiation and arbitration to assist States Parties in reaching mutually acceptable solutions where disputes arise, ultimately IHR(2005) do not provide

²⁵ HOMELAND SECURITY COUNCIL, *Implementation Plan for the National Strategy for Pandemic Influenza*, at http://www.whitehouse.gov/homeland/nspi_implementation.pdf. This document "describes more than 300 critical actions, many of which have already been initiated, to address the threat of pandemic influenza." See, also, CRS Report RL34724, *Would an Influenza Pandemic Qualify as a Major Disaster Under the Stafford Act?*, by Edward C. Liu.

²⁶ See *supra* notes 7-17 and accompanying text.

²⁷ This section was written by Kathleen S. Swendiman, Legislative Attorney.

²⁸ Fifty-eighth World Health Assembly, agenda item 13.1, Revision of the International Health Regulations, May 23, 2005, at <http://www.who.int/csr/ihr/en/>.

²⁹ "State Party" is the name for WHO member states that have agreed to be bound by the IHR.

³⁰ M.G. Baker and D.P. Fidler, "Global Public Health Surveillance under New International Health Regulations," *Emerging Infectious Diseases*, vol. 12, no. 7, July 2006, at <http://www.cdc.gov/ncidod/EID/vol12no07/05-1497.htm>.

³¹ The full text of the IHR 2005 may be found at http://www.who.int/csr/ihr/IHR_2005_en.pdf.

³² IHR(2005), Article 59.2.

an enforcement mechanism to compel compliance with WHO provisions.³³ The United States accepted the IHR(2005) with three reservations, including the reservation that it will implement the IHR(2005) in line with U.S. principles of federalism.³⁴ Within five years of the entry into force date, State Parties must complete development of public health infrastructure that ensures full compliance with the regulations.

Declaration of a “Public Health Emergency of International Concern”

On April 25, 2009, WHO Director-General Dr. Margaret Chan, upon the advice of the Emergency Committee, declared that the influenza A(H1N1) virus outbreak constituted a “Public Health Emergency of International Concern” under the IHR(2005).³⁵ This influenza outbreak marked the first time under the IHR(2005) that the Director-General convened the Emergency Committee and determined that a “Public Health Emergency of International Concern” existed. Article 12(1) of the IHR(2005) authorizes the WHO Director-General to make such a declaration, and Article 1 of the IHR(2005) defines a “Public Health Emergency of International Concern” as “an extraordinary event which is determined... (i) to constitute a public health risk to other States through the international spread of disease and (ii) to potentially require a coordinated international response.”

WHO Recommendations

Under the IHR(2005), if the WHO Director-General declares a “Public Health Emergency of International Concern,” then the Director-General must issue temporary recommendations which will depend upon the nature of the threat (Article 15(1)). The IHR(2005) do not preclude State Parties from implementing measures that achieve a greater level of health protection than WHO temporary recommendations, provided that such measures are (1) otherwise consistent with the IHR(2005), and (2) not more restrictive of international trade and travel, and not more invasive or intrusive to persons, than reasonably available alternatives that would achieve the appropriate level of health protection (Article 43(1)). Following the declaration of a “Public Health Emergency of International Concern” on April 25, 2009, the Director-General recommended that “all countries should intensify surveillance for unusual outbreaks of influenza-like illness and severe pneumonia.”³⁶ The Director-General, however, did not recommend any travel or trade restrictions.

On June 11, 2009, the WHO Director-General announced that the scientific criteria for an influenza pandemic had been met with regard to the influenza A(H1N1) virus, so that the WHO pandemic alert level was raised from 5 to 6.³⁷ Again, no travel, border closures, or trade restrictions were recommended.

³³ IHR, Article 56.

³⁴ HHS Secretary Michael Leavitt announced the acceptance of the IHR(2005) by the United States on December 13, 2006. See News Release at <http://www.pandemicflu.gov/plan/federal/index.html>.

³⁵ WHO, Statement by the WHO Director-General on Influenza A (H1N1), April 25, 2009, available at http://www.who.int/mediacentre/news/statements/2009/h1n1_20090425/en/index.html.

³⁶ Id.

³⁷ Dr. Margaret Chan, Director-General of the World Health organization, “World Now at the Start of 2009 Influenza Pandemic,” http://www.who.int/mediacentre/news/statements/2009/h1n1_pandemic_phase6_20090611/en/index.html.

International Response to WHO Recommendations

The WHO advised that travel restrictions would have “very little effect on stopping the virus from spreading, but would be highly disruptive to the travel community.”³⁸ Despite this recommendation, some countries, such as China and several South American countries, implemented outright travel bans to or from Mexico. Other countries, including the United States, advised against nonessential travel to Mexico.

According to the IHR(2005), State Parties may apply measures that affect travel, even if not recommended by the Director-General.³⁹ However, such measures must be no more restrictive of travel, or more intrusive to persons, than reasonably available alternatives that would achieve the appropriate level of health protection. Thus, State Parties are not supposed to bar the entry of a conveyance for public health reasons, but are rather to manage a public health threat through isolation, quarantine, disinfection, or other such applicable methods.⁴⁰ If a State Party implements additional health measures significantly interfering with international traffic, the public health rationale and relevant scientific information for the measures must be provided to WHO. The WHO will then share the information with State Parties and institute procedures to find a mutually acceptable solution.⁴¹ Ultimately, however, the IHR(2005) do not provide an enforcement mechanism to compel compliance with WHO recommendations.⁴²

Quarantine and Isolation Authority⁴³

Federal Authorities

Although the terms are often used interchangeably, quarantine and isolation are two distinct concepts. Quarantine typically refers to the “(s)eparation of individuals who have been exposed to an infection but are not yet ill from others who have not been exposed to the transmissible infection.”⁴⁴ Isolation refers to the “(s)eparation of infected individuals from those who are not

³⁸ WHO, Epidemic and pandemic alert and response (EPR)/ Travel: is it safe to travel? Available at http://www.who.int/csr/disease/swineflu/frequently_asked_questions/travel/en/index.html. See also CRS Report R40588, *The 2009 Influenza A(H1N1) “Swine Flu” Outbreak: U.S. Responses to Global Human Cases*, by Tiaji Salaam-Blyther.

³⁹ IHR, Article 42, “Additional Health Measures.” In addition, despite scientific evidence that eating pork does not cause influenza, a number of countries banned pork products. See CRS Report R40575, *Potential Farm Sector Effects of 2009 H1N1 “Swine Flu”*: Questions and Answers, by Renée Johnson, for a discussion of international responses to restrictions on pork products following the influenza A(H1N1) outbreak.

⁴⁰ IHR, Article 28.1, “Ships and aircraft at points of entry.”

⁴¹ IHR, Article 43, “Additional Health Measures.” While the IHR(2005) do not include an enforcement mechanism for State Parties that fail to comply with their provisions, the WHO considers the potential consequences of non-compliance within the global community, especially in economic terms, to be a powerful compliance tool. The IHR(2005) (Article 56) contain a dispute settlement mechanism to resolve conflicts which may arise among State Parties when applying or interpreting the regulations, including options such as negotiation, mediation, conciliation, or arbitration, or referral to the Director-General of WHO, if agreed to by all the parties to the dispute.

⁴² Lawrence O. Gostin, “Influenza A(H1N1) and Pandemic Preparedness Under the Rule of International Law,” 301 JAMA 2376-2378 (June 10, 2009).

⁴³ This section was written by Kathleen S. Swendiman, Legislative Attorney. For a detailed discussion of quarantine and isolation, see CRS Report RL33201, *Federal and State Quarantine and Isolation Authority*, by Kathleen S. Swendiman and Jennifer K. Elsea.

⁴⁴ Homeland Security Council, National Strategy for Pandemic Influenza: Implementation Plan (GPO May 2006). For a (continued...)

infected.”⁴⁵ Primary quarantine authority typically resides with state health departments and health officials; however, the federal government has jurisdiction over interstate and border quarantine.

Federal quarantine and isolation authority may be found in Section 361 of the Public Health Service Act, 42 U.S.C. § 264, wherein Congress has given the Secretary of HHS the authority to make and enforce regulations necessary “to prevent the introduction, transmission, or spread of communicable diseases from foreign countries into the States or possessions, or from one State or possession into any other State or possession.”⁴⁶ While also providing the Secretary with broad authority to apprehend, detain, or conditionally release a person, the law limits the Secretary’s authority to the communicable diseases published in an Executive Order of the President.⁴⁷ Executive Order 13295 lists the communicable diseases for which this quarantine authority may be exercised, and specifically includes influenza viruses which have the potential to cause a pandemic.⁴⁸ In 2000, the Secretary of HHS transferred certain authorities, including interstate quarantine authority, to the Director of the CDC.⁴⁹ Both interstate and foreign quarantine measures are now carried out by CDC’s Division of Global Migration and Quarantine.⁵⁰

HHS also works closely with the Department of Homeland Security (DHS) and its agencies. HHS and DHS signed a memorandum of understanding in 2005 that sets forth specific cooperation mechanisms to implement their respective statutory responsibilities for quarantine and other public health measures.⁵¹ DHS has three agencies that may aid CDC in its enforcement of quarantine rules and regulations pursuant to 42 U.S.C. § 268(b). They are U.S. Customs and Border Protection, U.S. Immigration and Customs Enforcement, and the United States Coast Guard. In addition to DHS, CDC may also rely on other federal law enforcement agencies and state and local law enforcement agencies.

Federal and State Coordination

While the federal government has authority to authorize quarantine and isolation under certain circumstances, it should be noted that the primary authority for quarantine and isolation exists at the state level as an exercise of the state’s police power. States conduct these activities in

(...continued)

discussion of the history of quarantines in the United States *see* Felice Batlan, “Law in the Time of Cholera: Disease, State Power, and Quarantines Past and Future,” 80 *TEMP. L. REV.* 53 (2007).

⁴⁵ Homeland Security Council, *National Strategy for Pandemic Influenza: Implementation Plan* (GPO May 2006).

⁴⁶ 42 U.S.C. § 264(a). Violation of federal quarantine and isolation regulations is a criminal misdemeanor, punishable by fine and/or imprisonment, 42 U.S.C. § 271.

⁴⁷ 42 U.S.C. § 264(b).

⁴⁸ *See also* E.O. 13375, April, 2005, which amended E.O. 13295. The diseases listed are cholera, diphtheria, infectious tuberculosis, plague, smallpox, yellow fever, viral hemorrhagic fevers, severe acute respiratory syndrome (SARS), and influenza viruses which have the potential to cause a pandemic. Other new threats would have to be added to E.O. 13295 in order to be “quarantinable diseases.”

⁴⁹ 42 C.F.R. Part 70. Regulations regarding quarantine upon entry into the United States from foreign countries are also administered by the CDC, *see* 42 C.F.R. Part 71.

⁵⁰ *See* CDC Division of Global Migration and Quarantine home page at <http://www.cdc.gov/ncidod/dq/index.htm>.

⁵¹ http://www.dhs.gov/xnews/testimony/testimony_1181229544211.shtm.

accordance with their particular laws and policies.⁵² CDC acknowledges this deference to state authority as follows:

In general, CDC defers to the state and local health authorities in their primary use of their own separate quarantine powers. Based upon long experience and collaborative working relationships with our state and local partners, CDC continues to anticipate the need to use this federal authority to quarantine an exposed person only in rare situations, such as events at ports of entry or in similar time-sensitive settings.⁵³

Section 311 of the PHS Act⁵⁴ provides for federal-state cooperative activities to enforce quarantines. The federal government may help states and localities enforce their quarantines and other health regulations and, in turn, may accept state and local assistance in enforcing federal quarantines. The federal government may also assist with or take over the management of an *intrastate* incident if requested by a state or if the federal government determines local efforts are inadequate.⁵⁵ Under the authority of 42 U.S.C. § 97, the Secretary of HHS may request the aid of U.S. Customs and Border Protection, Coast Guard, and military officers in the execution of quarantines imposed by states on vessels coming into ports.

Proposed Federal Regulations

The CDC, on November 22, 2005, announced proposed changes to its quarantine regulations at 42 C.F.R. Parts 70 and 71.⁵⁶ These proposed regulations have not been finalized, but Congress recently mandated that they be promulgated by June 10, 2009.⁵⁷ These changes will constitute the first significant revision of the regulations in Parts 70 and 71 in 25 years. The proposed changes are an outgrowth of the CDC's experience during the spread of Severe Acute Respiratory

⁵² A new development in the law relating to quarantine is the possible use of self-imposed or home quarantines. States may need to consider whether their ability to impose quarantine also includes the authorities necessary to support a population asked to voluntarily stay at home for a period of time. Federal and state authorities generally provide for the care of persons mandatorily quarantined, but voluntary home-quarantine situations may pose new issues. See Steven D. Gravely, et al., *Emergency Preparedness and Response: Legal Issues in a Changing World*, 17 *THE HEALTH LAWYER* 1 (June 2005).

⁵³ Q&A on Executive Order 13295, available at http://www.cdc.gov/ncidod/dq/qa_influenza_amendment_to_eo_13295.htm. The complexities of this shared power have been noted. One analysis observed that "When it comes to the exercise of isolation and quarantine powers, reality tends to be messier than the conceptual realm. Public health officials need clear lines of authority in emergency situations, often the moments when isolation and quarantine might be required. Unfortunately, confusion about which level of government should take the lead often occurs, thus revealing the ability of quarantine powers to spotlight difficulties federalism poses for public health." David P. Fidler, Lawrence O. Gostin, and Howard Markel, "Through the Quarantine Looking Glass: Drug-Resistant Tuberculosis and Public Health Governance, Law and Ethics," 35 *J. OF LAW, MEDICINE & ETHICS* 616 (2007). Another commentator has noted that "Given the variation in due process rights in connection with quarantine, which may be afforded under federal and state law, one can foresee the possibility of considerable conflict." Felice Batlan, "Law in the Time of Cholera: Disease, State Power, and Quarantines Past and Future," 80 *TEMP. L. REV.* 53, 119 (2007).

⁵⁴ 42 U.S.C. § 243.

⁵⁵ 42 U.S.C. § 264 (c) and 42 C.F.R. § 70.2.

⁵⁶ See 70 *Fed. Reg.* 71892 (November 30, 2005), <http://www.cdc.gov/ncidod/dq/nprm/>. These proposed regulations were available for a 60-day comment period, which was extended for an additional 30 days, closing on March 1, 2006. See 71 *Fed. Reg.* 4544 (January 27, 2006), proposed Section 70.20 and 71.23 of 42 C.F.R.

⁵⁷ Section 121(c) of P.L. 110-392 states: "Not later than 240 days after the date of enactment of this Act, the Secretary of Health and Human Services shall promulgate regulations to update the current interstate and foreign quarantine regulations found in parts 70 and 71 of Title 42, Code of Federal Regulations."

Syndrome (SARS) in 2003, when the agency experienced difficulties locating and contacting airline passengers who might have been exposed to SARS during their travels. In announcing the proposed regulations, CDC Director Julie Gerberding said, “[t]hese updated regulations are necessary to expedite and improve CDC operations by facilitating contact tracing and prompting immediate medical follow up of potentially infected passengers and their contacts.”⁵⁸

The proposed regulations would expand reporting requirements for ill passengers⁵⁹ on board flights and ships arriving from foreign countries. They would also require airlines and ocean liners to maintain passenger and crew lists with detailed contact information and to submit these lists electronically to CDC upon request.⁶⁰ The lists would be used to notify passengers of their suspected exposure if a sick person were not identified until after the travelers had dispersed from an arriving carrier. The proposed regulations address the due process rights of passengers who might be subjected to quarantine after suspected exposure to disease; the regulations also provide for an appeal process.⁶¹

Border Entry Issues⁶²

Inadmissibility of Infected Aliens

Those most easily excluded from the United States are aliens already infected with the influenza A(H1N1) virus. The Immigration and Nationality Act (INA) specifically bars aliens who are determined to have “a communicable disease of public health significance,” from receiving visas and admission into the United States.⁶³ “A communicable disease of public health significance” is defined by the Secretary of Health and Human Services by regulation.⁶⁴ Although the regulatory definition does not specifically include influenza A(H1N1), it does include, by reference, communicable diseases as listed in a Presidential Executive Order issued pursuant to section 361(b) of the Public Health Service Act.⁶⁵ The relevant order, Executive Order 13295, as amended by Executive Order 13375, specifies “[i]nfluenza caused by novel or reemerging influenza viruses that are causing, or have the potential to cause, a pandemic” as a communicable disease for purposes of section 361(b).⁶⁶ Thus, for purposes of the INA, the influenza A(H1N1)

⁵⁸ “CDC Proposes Modernizing Control of Communicable Disease Regulation, USA,” *Medical News Today*, November 23, 2005, at <http://www.medicalnewstoday.com/medicalnews.php?newsid=34042>. Since the SARS outbreak, the CDC has increased its quarantine stations nationwide from 8 to 20. See <http://www.cdc.gov/ncidod/dq/index.htm>.

⁵⁹ The definition of ill person would be expanded to include anyone who has a fever of at least 100.4 degrees plus one of the following: severe bleeding, jaundice, or severe, persistent cough accompanied by bloody sputum, or respiratory distress. (Section 70.1 of proposed regulations).

⁶⁰ *Id.* The lists, in electronic format, would have to be kept for 60 days after arrival, and be able to be submitted within 12 hours of a CDC request. The lists would include names, contact information and seat assignments.

⁶¹ Proposed section 70.20 and 71.23 of 42 CFR.

⁶² This section was written by Yule Kim, Legislative Attorney.

⁶³ INA § 212(a)(1), 8 U.S.C. § 1182(a)(1) (Any alien who is determined (in accordance with regulations prescribed by the Secretary of Health and Human Services) to have a communicable disease of public health significance... is inadmissible).

⁶⁴ 42 C.F.R. § 34.2(b).

⁶⁵ 42 U.S.C. § 264.

⁶⁶ Exec. Order No. 13295, 68 FR 17255 (April 4, 2003) as amended by Exec. Order. No. 13375, 70 FR 17299 (April 1, 2005).

virus is a ground for inadmissibility into the United States. Of course, this law only applies to aliens, not citizens, and prior to inadmissibility being triggered, the alien must be diagnosed with the influenza A(H1N1) virus.⁶⁷ These considerations could therefore prevent this provision from being the most effective means to interdict individuals infected with the influenza A(H1N1) virus from entering the country.

Border Quarantines of Citizens or Aliens

There are currently no legal provisions that can exclude American citizens from the United States solely because of an infection with a communicable disease. The primary means to prevent infected citizens from introducing these diseases into the United States is to place them into quarantine or isolation at the border rather than deny them entry outright. As noted above, the Secretary has the authority to promulgate regulations to prevent the entry and spread of communicable diseases from foreign countries into the United States. The implementing regulations at 42 C.F.R. Part 71 specify that when there is reason to believe an arriving person is infected with “any communicable disease listed in an Executive Order, as provided under section 361(b) of the Public Service Act,” the person may be isolated, quarantined, or placed under surveillance or disinfected if deemed necessary to prevent the introduction of the communicable disease.⁶⁸ “Influenza caused by novel or reemergent influenza viruses that are causing, or have the potential to cause, a pandemic” is one such disease that can warrant quarantine.⁶⁹

Closing the Border

The most drastic measure discussed so far is “to close the borders.” Presumably, this would entail a blanket bar on all aliens and citizens seeking entry into the United States regardless of their health. There appear to be no laws specifically authorizing an executive agency to take such action. However, Congress could presumably enact a law to do so, at least with regard to aliens, because the Supreme Court has long recognized “the power to expel or exclude aliens as a fundamental sovereign attribute that is largely immune from judicial control.”⁷⁰ However, United States citizens cannot be barred from entering the United States.⁷¹ Thus, if Congress were to theoretically “close the borders,” it could do so only by excluding aliens.

In the absence of an act of Congress, it may be possible for the President to “close the borders” to aliens by Executive Order. However, this course of action appears to be fraught with legal and practical challenges, which would likely result in extensive litigation. Because Congress has not given the President authority to conduct blanket closings of borders, it would appear that the President could do so only if the exclusion power is one where he has concurrent authority with

⁶⁷ As a practical matter, there is not currently a real-time test that could be used to determine whether an apparently ill person is infected with this virus. Tests currently available require a day or more to perform.

⁶⁸ 42 C.F.R. § 71.32.

⁶⁹ Exec. Order No. 13295, 68 FR 17255 (April 4, 2003) *as amended by* Exec. Order. No. 13375, 70 FR 17299 (April 1, 2005).

⁷⁰ *Shaughnessy v. United States ex rel. Mezei*, 345 U.S. 206, 210 (1953). *See also* *Chae Chan Ping v. United States*, 130 U.S. 581, 609 (1889) (*Chinese Exclusion Case*) (Bradley, J., concurring).

⁷¹ *United States v. Wong Kim Ark*, 169 U.S. 649, 653 (1898) (holding that a person born in the United States could not be excluded from the country by the Chinese Exclusion Act); *Perez v. United States*, 502 F. Supp. 2d 301, 306 (N.D.N.Y. 2006).

Congress.⁷² Although this exclusion power is characterized as a power “exercised by the Government’s political departments largely immune from judicial control,”⁷³ the President appears to have rarely exercised any authority within this realm outside of the authority expressly delegated by an act of Congress. Considering the rather extensive inadmissibility regime codified within the Immigration and Nationality Act, it would appear unlikely that the President can exercise this power without express congressional authorization.

Airlines and Travel Restrictions⁷⁴

Airline Corporate Policies

Generally, airlines are under no legal obligation to provide transportation simply because a person has a valid ticket. As a matter of corporate policy, airlines have inserted clauses into their “contract of carriage” reserving the right to deny transportation to any ticketed passenger who presents himself or herself in a condition that may adversely effect the safety and/or security of the flight, its crew, or the other passengers. For example, Midwest Airlines’ “contract of carriage” specifically authorizes the refusal of transportation or removal from a flight if the passenger’s:

age, mental or physical condition, disability or impairment is such that the passenger would need excessive or unusual assistance in the event of an emergency or to take care of his/her physical needs in flight, ...⁷⁵

Thus, it is conceivable that a person presenting himself or herself for air travel with symptoms of illness could be denied the right to board.⁷⁶ Application and interpretation of this provision appears to be at the sole discretion of the air carrier. Should an individual be refused transportation, he or she may, depending on the terms of the “contract of carriage,” be eligible for a refund for any unused portion of the ticket purchased minus any taxes or applicable service fees.

CDC has issued interim guidance to assist airline crew in identifying passengers who may be infected with influenza A(H1N1).⁷⁷ This guidance provides that any passengers with certain symptoms should be reported immediately to the CDC quarantine station in the airport where the plane is expected to land.

⁷² *Youngstown Sheet and Tube Co. v. Sawyer*, 343 U.S. 579, 637 (1952) (Jackson, J., concurring).

⁷³ *Meizei*, 345 U.S. at 210.

⁷⁴ This section was written by Todd B. Tatelman, Legislative Attorney.

⁷⁵ See *Midwest Airlines, Contract of Carriage*, available at, http://www.midwestairlines.com/uploadedFiles/Travel_Tools/Travel_Policies/ContractofCarriage_20081222.pdf

⁷⁶ Airlines also have general authority to refuse to board passengers with communicable diseases under certain circumstances pursuant to Air Carrier Access Act of 1986 (ACAA) regulations. See 49 U.S.C. § 41705, 14 C.F.R. § 382.51. Decisions to deny passengers scheduled to fly must be based on “reasonable judgment that relies on current medical knowledge or on the best available objective evidence,” that the individual poses a direct threat to the health and safety of others. See, discussion, *infra* at 19, regarding the application of federal nondiscrimination laws, including the nondiscrimination provisions of the ACAA.

⁷⁷ <http://www.cdc.gov/h1n1flu/aircrew.htm>

Public Health “Do Not Board” List

Federal agencies have developed a new travel restriction tool to prevent the spread of communicable diseases of public health significance.⁷⁸ The public health Do Not Board (DNB) list was developed by the Department of Homeland Security (DHS) and the CDC, and made operational in June 2007.⁷⁹ The DNB list enables domestic and international health officials to request that persons with communicable diseases who meet specific criteria and pose a serious threat to the public be restricted from boarding commercial aircraft departing from or arriving in the United States. The list provides a new tool for management of emerging public health threats when local public health efforts are not sufficient to keep people with certain contagious diseases from boarding commercial flights.⁸⁰

Federal Airspace Authority

In addition to the legal authority over individual passengers, the federal government possesses the legal authority to regulate and control the navigable airspace of the United States. The notion that every nation has absolute and exclusive sovereignty over the airspace above its defined territory is a hallmark aviation principle that has been recognized by international agreements dating back to the 1919 Convention for the Regulation of Aerial Navigation.⁸¹ The United States Congress has, by statute, delegated the legal authority over airspace regulation to the Administrator of the Federal Aviation Administration (FAA).⁸² Pursuant to this authority, it appears that the FAA can prevent airplanes from entering the airspace of the United States if they originate from a country experiencing incidents of communicable disease (e.g., airplane from Mexico to any airport in the United States). Similarly, the FAA could deny airspace access to any airplane originating in the United States whose intention it is to operate into a country experiencing incidents of communicable disease (e.g., an airplane from any domestic airport to Mexico). Finally, the FAA can prevent aircraft originating in third countries from utilizing the airspace of the United States to travel to a country experiencing incidents of communicable disease (e.g., airplane originating in Canada destined for Mexico).

School Closures⁸³

Since children tend to be more susceptible than adults to infection and are responsible for more secondary transmission,⁸⁴ studies have suggested that community-wide school closures may help

⁷⁸ For a summary of recent actions taken by DHS and the CDC to improve procedures to restrict persons with serious communicable diseases who intend to travel despite medical advice, see Government Accountability Office, *Public Health and Border Security: HHS and DHS Should Further Strengthen Their Ability to Respond to TB Incidents*. GAO-09-58. Washington, D.C.: October, 2008.

⁷⁹ CDC. *Federal Air Travel Restrictions for Public Health Purposes—United States, June 2007-May 2008*, MMWR 2008 Sep. 19; 57 (37): 1009-12, available at <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5737a1.htm>.

⁸⁰ The list, which applies to all citizens and foreign nationals, appears to have been developed under the general authority of the Aviation and Transportation Security Act of 2001, at 49 U.S.C. § 114(f) and (h).

⁸¹ Convention for the Regulation of Aerial Navigation, Oct. 13, 1919, Art. 1, 11 L.N.T.S. 173, 190.

⁸² 49 U.S.C. § 40103 (2006).

⁸³ This section was written by Nancy Lee Jones, Legislative Attorney. For more information on the school closure issue see CRS Report R40554, *The 2009 Influenza Pandemic: An Overview*, by Sarah A. Lister and C. Stephen Redhead.

⁸⁴ U.S. Department of Education, *H1N1 Flu and U.S. Schools: Answers to Frequently Asked Questions*, <http://www.ed.gov/admins/lead/safety/emergencyplan/pandemic/guidance/flu-faqs.pdf>.

mitigate the impact of an influenza pandemic.⁸⁵ The Centers for Disease Control and Prevention (CDC), in interim pre-pandemic planning guidance, included school closures as a tool for mitigation of a pandemic and, in some cases, the period of closure could be as long as 12 weeks.⁸⁶ The U.S. Department of Education responded to the H1N1 outbreak by holding a conference call on school closures with state and district education officials⁸⁷, publishing guidance,⁸⁸ and other information.⁸⁹ In addition, President Obama originally called for school closures if there are students ill with the influenza A(H1N1) virus.⁹⁰ As of May 5, 2009, 726 schools out of more than 100,000 nationwide were closed due to the outbreak.⁹¹

However, additional information on the virus has led to less use of school closures. During the influenza A(H1N1) outbreak, the CDC issued interim guidance regarding school closures, originally recommending that schools with confirmed H1N1 influenza close. Updated guidance issued on May 5, 2009, noted that new information indicating that the disease severity was similar to that of seasonal influenza warranted revision of the original recommendation.⁹² The updated guidance recommends that schools not close for suspected or confirmed cases of influenza A(H1N1) unless the number of faculty or students absent interferes with the school's ability to function. In addition, it was recommended that the schools that were closed reopen.⁹³

School closures may spawn numerous policy issues including when and how long schools should be closed; how schools can comply with standardized testing requirements; and whether school meals programs should continue.⁹⁴ However, school closures also raise legal issues. The main question is who has the legal authority to institute a school closure. A CDC-requested study of state legal authorities to close schools found that school closure is legally possible in most jurisdictions during both routine and emergency situations.⁹⁵ The study also indicated that state

⁸⁵ Centers for Disease Control and Prevention, *Interim Pre-pandemic Planning Guidance: Community Strategy for Pandemic Influenza Mitigation in the United States*, at 27. http://www.pandemicflu.gov/plan/community/community_mitigation.pdf. Other school policies may also have an effect on the spread of an influenza virus. The National Association of State Boards of Education (NASBE) updated its statement on influenza and school preparedness to suggest that “[s]tates may want to consider adding the flu vaccination to the list of mandatory immunizations children are required to have to attend school.” <http://www.nasbe.org/index.php/file-repository?func=startdown&id=887>.

⁸⁶ Centers for Disease Control and Prevention, *Interim Pre-pandemic Planning Guidance: Community Strategy for Pandemic Influenza Mitigation in the United States*, http://www.pandemicflu.gov/plan/community/community_mitigation.pdf. CDC has also issued guidance relating to higher education. See http://www.cdc.gov/h1n1flu/guidance/guidelines_colleges.htm.

⁸⁷ <http://www.ed.gov/admins/lead/safety/emergencyplan/pandemic/guidance/trans042709.pdf>

⁸⁸ Sarah D. Sparks, “Schools Prepare Physically, Academically for Flu Closures,” 42 *Education Daily* No. 79, at 3 (April 30, 2009); U.S. Department of Education, *H1N1 Flu and U.S. Schools: Answers to Frequently Asked Questions*, <http://www.ed.gov/admins/lead/safety/emergencyplan/pandemic/guidance/flu-faqs.pdf>; <http://www.pandemicflu.gov/plan/school/index.html>.

⁸⁹ <http://www.ed.gov/admins/lead/safety/emergencyplan/pandemic/guidance/flu-faqs.pdf>; <http://rems.ed.gov/index.cfm?event=PandemicPreparedns4Schools>.

⁹⁰ See <http://www.whitehouse.gov/blog/09/04/30/The-Presidents-Remarks-on-H1N1/>.

⁹¹ Frank Wolfe, “NASBE: Schools Should Consider Mandatory Flu Shots,” 42 *Education Daily* No. 83, at 3 (May 6, 2009).

⁹² http://www.cdc.gov/h1n1flu/K12_dismissal.htm; <http://www.cdc.gov/h1n1flu/mitigation.htm>.

⁹³ *Id.*

⁹⁴ For a discussion of these issues and others see U.S. Department of Education, *H1N1 Flu and U.S. Schools: Answers to Frequently Asked Questions*, <http://www.ed.gov/admins/lead/safety/emergencyplan/pandemic/guidance/flu-faqs.pdf>; <http://www.pandemicflu.gov/plan/school/index.html>.

⁹⁵ James G. Hodge, Jr., Dhruvajyoti Bhattacharya, and Jennifer Gray, “Legal Preparedness for School Closures in (continued...)”

authority for closure may be vested at various levels of government and in different departments, generally the state or local education agencies or state or local departments of health.⁹⁶ However, if there is a state or local declaration of emergency, the authority to close schools shifts to the state emergency management agencies in most jurisdictions.⁹⁷ These varying laws may create legal controversies over who has the authority to make the school closure decision. In addition, there could be legal challenges to whatever school closure decision is made, particularly if the duration of a school closing is lengthy. Issues may also arise regarding whether school employees will be paid for the time the schools are closed.⁹⁸

Mandatory Vaccinations⁹⁹

History and Precedent

Historically, the preservation of the public health has been the primary responsibility of state and local governments, and the authority to enact laws relevant to the protection of the public health derives from the state's general police powers.¹⁰⁰ With respect to the preservation of the public health in cases of communicable disease outbreaks, these powers may include the enactment of mandatory vaccination laws.¹⁰¹ *Jacobson v. Massachusetts*¹⁰² is the seminal case regarding a state's or municipality's authority to institute a mandatory vaccination program as an exercise of its police powers. In *Jacobson*, the Supreme Court upheld a Massachusetts law that gave municipal boards of health the authority to require the vaccination of persons over the age of 21 against smallpox, and determined that the vaccination program instituted in the City of Cambridge had "a real and substantial relation to the protection of the public health and safety."¹⁰³ In upholding the law, the Court noted that "the police power of a State must be held to embrace, at least, such reasonable regulations established directly by legislative enactment as will protect the public health and the public safety."¹⁰⁴ The Court added that such laws were within the full

(...continued)

Response to Pandemic Influenza and Other Emergencies," <http://www.pandemicflu.gov/plan/school/schoolclosures.pdf>. This study was summarized in James G. Hodge, Jr. "The Legal Landscape for School Closures in Response to Pandemic Flu or Other Public Health Threats," 7 *Biosecurity and Bioterrorism: Biodefense Strategy, Practice, and Science* 45 (2009).

⁹⁶ See James G. Hodge, Jr. "The Legal Landscape for School Closures in Response to Pandemic Flu or Other Public Health Threats," 7 *Biosecurity and Bioterrorism: Biodefense Strategy, Practice, and Science* 45 (2009).

⁹⁷ *Id.* at 49. "The ability of departments of health and education in nonemergencies to close schools is largely supplanted by the legal authority of state emergency management agencies during declared emergencies in 98% of the jurisdictions studied."

⁹⁸ <http://www.law.com/jsp/tx/PubArticleTX.jsp?id=1202430362015&slreturn=1>.

⁹⁹ This section was written by Kathleen S. Swendiman, Legislative Attorney. For a detailed discussion see CRS Report RS21414, *Mandatory Vaccinations: Precedent and Current Laws*, by Kathleen S. Swendiman.

¹⁰⁰ See *The People v. Robertson*, 134 N.E. 815, 817 (1922).

¹⁰¹ Starting with the smallpox vaccine, vaccines have been used to halt the spread of disease for over 200 years. Donald A. Henderson & Bernard Moss, *Smallpox and Vaccinia*, *VACCINES* 74, 75 (Stanley A. Plotkin & Walter A. Orenstein eds., 3d ed. 1999).

¹⁰² 197 U.S. 11 (1905).

¹⁰³ *Id.* at 31. The Massachusetts statute in question read as follows: "Boards of health, if in their opinion it is necessary for public health or safety, shall require and enforce the vaccination and revaccination of all the inhabitants of their towns, and shall provide them with the means of free vaccination. Whoever refuses or neglects to comply with such requirement shall forfeit five dollars." M.G.L.A. c. 111, § 181 (2004).

¹⁰⁴ *Id.* at 25.

discretion of the state, and that federal powers with respect to such laws extended only to ensure that the state laws did not “contravene the Constitution of the United States or infringe any right granted or secured by that instrument.”¹⁰⁵ In the context of the current H1N1 pandemic, mandatory vaccination issues will most likely not arise since it is unlikely that there will be sufficient vaccine available.¹⁰⁶

Vaccination Orders During a Public Health Emergency

Many states also have laws providing for mandatory vaccinations during a public health emergency or outbreak of a communicable disease. Generally, the power to order such actions rests with the governor of the state or with a state health officer. For example a governor may have the power to supplement the state’s existing compulsory vaccination programs and institute additional programs in the event of a civil defense emergency period.¹⁰⁷ Or, a state health officer may, upon declaration of a public health emergency, order an individual to be vaccinated “for communicable diseases that have significant morbidity or mortality and present a severe danger to public health.”¹⁰⁸ In addition, exemptions may be provided for medical reasons or where objections are based on religion or conscience.¹⁰⁹ However, if a person refuses to be vaccinated, he or she may be quarantined during the public health emergency giving rise to the vaccination order.

Model State Emergency Health Powers Act

In addition to the current laws, many states have considered and have passed some or all of the provisions set forth in the Model State Emergency Health Powers Act (Model Act).¹¹⁰ The Model Act was drafted by The Center for Law and the Public’s Health at Georgetown and Johns Hopkins Universities.¹¹¹ It seeks to “grant public health powers to state and local public health authorities to ensure strong, effective, and timely planning, prevention, and response mechanisms to public health emergencies (including bioterrorism) while also respecting individual rights.” With respect

¹⁰⁵ *Id.*

¹⁰⁶ For a discussion of issues raised by the allocation of vaccine see CRS Report RL33381, *The Americans with Disabilities Act (ADA): Allocation of Scarce Medical Resources During a Pandemic*, by Nancy Lee Jones.

¹⁰⁷ HAW. REV. STAT. § 128-8 (2006). In Arizona, the Governor, during a state of emergency or state of war emergency in which there is an occurrence or the imminent threat of smallpox or other highly contagious and highly fatal disease, may “issue orders that mandate treatment or vaccination of persons who are diagnosed with illness resulting from exposure or who are reasonably believed to have been exposed or who may reasonably be expected to be exposed.” ARIZ. REV. STAT. § 36-787 (2006).

¹⁰⁸ FLA. STAT. § 381.00315 (2007).

¹⁰⁹ *See, eg.*, CONN. GEN. STAT. § 19a-222 (2007) (exemption for physician’s determination of sickness); VA. CODE ANN. § 32.1-48 (2007) (vaccination waived if detrimental to person’s health, as certified by a physician); WIS. STAT. § 252.041 (2007) (vaccination may be refused for reasons of religion or conscience). *See also*, CRS Report RL34708, *Religious Exemptions for Mandatory Healthcare Programs: A Legal Analysis*, by Cynthia Brougher.

¹¹⁰ The Center for Law and the Public’s Health tracks state legislative activity relating to the Model Act at <http://www.publichealthlaw.net/Resources/Modellaws.htm#MSEHPA>. According to James G. Hodge Jr., Executive Director of the Center for Law and the Public’s Health, 44 states have introduced legislation based on the Model Act and 38 states have adopted some parts of it. Marcia Coyle, “Legal Issues Swell If Swine Flu Spreads,” *The National Law Journal* (May 4, 2009), available at http://law.com/jsp/nlj/PubArticleNLJ.jsp?id=1202430383777&Legal_Issues_Swell_If_Swine_Flu_Spreads&slreturn=1

¹¹¹ The text of the Center’s Model State Emergency Health Powers Act from 2001 is available at <http://www.publichealthlaw.net/ModelLaws/index.php>.

to vaccinations, the Model Act includes provisions similar to the current laws discussed above. Under the Model Act, during a public health emergency, the appropriate public health authority would be authorized to “vaccinate persons as protection against infectious disease and to prevent the spread of contagious or possibly contagious disease.” The Model Act requires that the vaccine be administered by a qualified person authorized by the public health authority, and that the vaccine “not be such as is reasonably likely to lead to serious harm to the affected individual.” The Model Act recognizes that individuals may be unable or unwilling to undergo vaccination “for reasons of health, religion, or conscience,” and provides that such individuals may be subject to quarantine to prevent the spread of a contagious or possibly contagious disease.¹¹²

Role of the Federal Government

Federal jurisdiction over public health matters derives from the Commerce Clause, which states that Congress shall have the power “[t]o regulate Commerce with foreign Nations, and among the several States....”¹¹³ Thus, under the Public Health Service Act, the Secretary of Health and Human Services has authority to make and enforce regulations necessary “to prevent the introduction, transmission, or spread of communicable diseases from foreign countries into the States or possessions, or from one State or possession into any other State or possession.”¹¹⁴ While this language appears to confer broad authority to promulgate regulations necessary to prevent the spread of disease, current regulations deal primarily with the use of quarantine measures to halt the spread of certain communicable diseases.¹¹⁵ The Public Health Service Act does not specifically authorize any mandatory vaccination programs; nor do there appear to be any regulations regarding the implementation of a mandatory vaccination program at the federal level during a public health emergency.¹¹⁶

As noted above, state and local governments have the primary responsibility for protecting the public health, and this has been reflected in the enactment of the various state laws authorizing mandatory vaccination procedures during a public health emergency. Any federal mandatory vaccination program applicable to the general public would likely be limited to areas of existing federal jurisdiction, i.e., interstate and foreign commerce, similar to the federal quarantine authority.¹¹⁷ This limitation on federal jurisdiction acknowledges that states have the primary responsibility for protecting the public health, but that under certain circumstances, federal intervention may be necessary.

¹¹² *Id.* See Section 604 of the Model Act for provisions relating to quarantine.

¹¹³ U.S. CONST. art. I, § 8.

¹¹⁴ 42 U.S.C. 264(a). Originally, the statute conferred this authority on the Surgeon General; however, pursuant to Reorganization Plan No. 3 of 1966, all statutory powers and functions of the Surgeon General were transferred to the Secretary.

¹¹⁵ See 42 C.F.R. Parts 70 (interstate matters) and 71 (foreign arrivals).

¹¹⁶ For more information on federal vaccination policy, see CRS Report RL31694, *Smallpox Vaccine Stockpile and Vaccination Policy*, by Judith A. Johnson.

¹¹⁷ It has been suggested that in the case of a serious outbreak of a communicable disease, the federal government might enact policies to encourage vaccinations or place restrictions on those who refuse. Bureau of Justice Assistance, U.S. Department of Justice, *The Role of Law Enforcement in Public Health Emergencies*, September, 2006 at 19.

Civil Rights¹¹⁸

Introduction

Infectious diseases, such as the 2009 influenza pandemic, may raise a classic civil rights issue: to what extent can an individual's liberty be curtailed to advance the common good? The United States Constitution and federal civil rights laws provide for individual due process and equal protection rights as well as a right to privacy, but these rights are balanced against the needs of the community. With the advance of medical treatments in recent years, especially the use of antibiotics, the civil rights of the individual with a contagious disease have been emphasized. However, classic public health measures such as quarantine, isolation, and contact tracing are, nevertheless, available in appropriate situations and, as new or resurgent diseases have become less treatable, some of these classic public health measures have been increasingly used. Therefore, the issue of how to balance these various interests in a modern culture that is sensitive to issues of individual rights has become critical.¹¹⁹

Constitutional Rights to Due Process and Equal Protection

Constitutional rights to due process and equal protection may be implicated by the imposition of a quarantine or isolation order.¹²⁰ The Fifth and Fourteenth Amendments prohibit governments at all levels from depriving individuals of any constitutionally protected liberty interest without due process of law. What process may be due under certain circumstances is generally determined by

¹¹⁸ This section was written by Nancy Lee Jones, Legislative Attorney.

¹¹⁹ For a detailed discussion of constitutional issues relating to quarantine see Michelle A. Daubert, "Pandemic Fears and Contemporary Quarantine: Protecting Liberty Through a Continuum of Due Process Rights," 54 BUFFALO L. REV. 1299 (January 2007). For an analysis of how to balance the sometimes competing interests of personal and economic liberties with the public's health and security see Lawrence O. Gostin, "When Terrorism Threatens Health: How Far are Limitations on Personal and Economic Liberties Justified?" 55 Fla. Law Rev. 1105 (December 2003). See also David P. Fidler, Lawrence O. Gostin, and Howard Markel, "Through the Quarantine Looking Glass: Drug-Resistant Tuberculosis and Public Health Governance, Law and Ethics," 35 J. OF LAW, MEDICINE & ETHICS 616 (2007), where the authors note that courts have set four limits on isolation and quarantine authority: the subject must actually be infectious or have been exposed to infectious disease, the subject must be placed in a safe and habitable environment, the authority must be exercised in a non-discriminatory manner, and there must be procedural due process.

¹²⁰ It has been argued that the federal quarantine authority may not pass constitutional muster since it does not specifically provide for a right to a fair hearing. See Howard Markel, Lawrence O. Gostin, and David P. Fidler, "Extensively Drug-Resistant Tuberculosis: An Isolation Order, Public Health Powers, and a Global Crisis," 298 JAMA 83-84 (July 4, 2007). It should be noted that the proposed CDC quarantine regulations contain detailed due process procedures including a right to a hearing for full quarantine. 70 Fed. Reg. 71,892 (November 30, 2005), <http://www.cdc.gov/ncidod/dq/nprm/>. However, these proposed regulations have been strongly criticized for what commentators have described as constitutional failings. These criticisms have highlighted the lack of independent judicial review for individuals subject to quarantine, the broad discretion accorded to directors of federal quarantine stations, the lack of hearings during provisional quarantine, and privacy concerns. See, e.g., Lawrence O. Gostin, Benjamin E. Berkman, and David P. Fidler, *Comments on Department of Health and Human Services, Control of Communicable Diseases (Proposed Rule)*, 42 C.F.R. Parts 70 and 71 (November 30, 2005), <http://www.publichealthlaw.net/Resources/BTlaw.htm>; The New England Coalition for Law and Public Health, *Comments on the Interstate and Foreign Quarantine Regulations Proposed by the Centers for Disease Control and Prevention*, <http://64.233.169.104/u/UMBaltimore?q=cache:fsSm0xxCULQJ:www.umaryland.edu/healthsecurity/docs/New%2520England%2520Coalition%2520Comments%2520CDC%2520revisions.pdf+%22new+england+coalition+for+r+law+and+public+health%22&hl=en&ct=clnk&cd=1&gl=us&ie=UTF-8>; Felice Batlan, "Law in the Time of Cholera: Disease, State Power, and Quarantines Past and Future," 80 TEMP. L. REV. 53 (2007).

balancing the individual's interest at stake against the governmental interest served by the restraints, determining whether the measures are reasonably calculated to achieve the government's aims,¹²¹ and deciding whether the least restrictive means have been employed to further that interest.

In *O'Connor v. Donaldson*,¹²² the Supreme Court examined the civil commitment of an individual to a mental hospital and held that "a State cannot constitutionally confine without more, a nondangerous individual who is capable of surviving safely in freedom by himself or with the help of willing and responsible family members or friends."¹²³ Arguably, an individual who is highly contagious with a serious illness may be considered dangerous, and thus subject to involuntary confinement if there is no less restrictive alternative. The lesson of *Donaldson* is that such confinements must be carefully examined in order to comport with the constitutional right to due process. *Donaldson* also raises the issue of whether less restrictive programs are required prior to the imposition of the more restrictive application of isolation or quarantine. It could be argued that the least restrictive alternative must first be applied or more restrictive alternatives will run afoul of constitutional requirements.¹²⁴

The unequal treatment of certain socially disfavored groups with regard to quarantine also raises equal protection issues. For example, in *Wong Wai v. Williamson*¹²⁵ a board of health resolution mandated Chinese residents to be quarantined for bubonic plague unless they submitted to inoculation with a serum with "the only justification offered for this discrimination ... a suggestion ... that this particular race is more liable to the plague than any other."¹²⁶ The court struck the resolution as a violation of the equal protection clause.¹²⁷

Although the Constitution does not specifically grant a right to travel, the Supreme Court has held that there is a fundamental right to travel.¹²⁸ This right, and the applicable due process procedures,

¹²¹ See, e.g., *Jacobson v. Massachusetts*, 197 U.S. 11, 27 (1905) (enforcement of public health laws must have some "real or substantial relation to the protection of the public health and the public safety"); *Jew Ho v. Williamson*, 103 F. 10 (C.C.N.D. Cal. 1900) (quarantine of San Francisco district inhabited primarily by Chinese immigrants purportedly to control the spread of bubonic plague was invalidated).

¹²² 422 U.S. 563 (1975).

¹²³ *Id.* at 576.

¹²⁴ See Wendy D. Parmet, "Legal Power and Legal Rights—Isolation and Quarantine in the Case of Drug-Resistant Tuberculosis," 357 *NEW ENG. J. OF MEDICINE* 433, 435 (August 2, 2007). Professor Parmet argues that compulsory measures are not the most effective and may prompt individuals who may be subject to them to evade authorities. "By ensuring that coercion is used only when less restrictive alternatives will not work and with due regard for the rights of those detained, the law can foster public trust, minimizing the need for compulsion and laying the groundwork for the comprehensive and costly control programs needed to prevent the spread of XDR tuberculosis and other contagious pathogens." *Id.*

¹²⁵ 103 F. 1 (N.D. Cal. 1900).

¹²⁶ *Id.* at 15.

¹²⁷ One commentator observed that it is unlikely that such blatantly discriminatory actions would occur today, but noted that "studies of New York City's use of isolation orders for tuberculosis in the 1990s show that more than 90% of the people detained were non-white and more than 60% were homeless.... Although these figures may reflect the democracy (sic) of non-compliant patients with tuberculosis in New York City at that time, the fact that the most potent public health tool was used primarily against marginalized, nonwhite persons underscores the need for legal oversight—if only so that affected communities can be assured of the absence of discrimination." Wendy D. Parmet, "Legal Power and Legal Rights—Isolation and Quarantine in the Case of Drug-Resistant Tuberculosis," 357 *NEW ENG. J. OF MEDICINE* 433, 434 (August 2, 2007).

¹²⁸ *United States v. Guest*, 383 U.S. 745 (1966); *Shapiro v. Thompson*, 394 U.S. 618 (1969).

have been examined in the context of transportation security, particularly regarding alleged terrorists.¹²⁹ Generally, restrictions on travel, such as identification policies for boarding airplanes, have not been found to violate the Constitution.¹³⁰ If the public safety arguments have prevailed regarding restrictions due to transportation security, they would be likely to prevail against a serious public health threat. However, the seriousness of the threat and the due process procedures used would be key to any constitutional determination.

Federal Nondiscrimination Laws

In addition to constitutional issues, discrimination against an individual with an infectious disease may be covered by certain federal laws, notably Section 504 of the Rehabilitation Act,¹³¹ the Americans with Disabilities Act (ADA),¹³² and the Air Carrier Access Act (ACAA).¹³³ However, under these statutes, an individual with a contagious disease does not have to be given access to a place of public accommodation or employment if such access would place other individuals at a significant risk.¹³⁴

Section 504 of the Rehabilitation Act

Although the language of Section 504 does not specifically discuss contagious diseases, the Supreme Court dealt with discrimination issues in the context of tuberculosis and Section 504 in *School Board of Nassau County v. Arline*.¹³⁵ The Court found that in most cases an individualized inquiry is necessary in order to protect individuals with disabilities from “deprivation based on prejudice, stereotypes, or unfounded fear, while giving appropriate weight to such legitimate concerns of grantees as avoiding exposing others to significant health and safety risks.”¹³⁶ The Court adopted the test enunciated by the American Medical Association amicus brief and held that the factors which must be considered include “findings of facts, based on reasonable medical judgments given the state of medical knowledge, about (a) the nature of the risk (how the disease is transmitted), (b) the duration of the risk (how long is the carrier infectious), (c) the severity of

¹²⁹ See CRS Report RL32664, *Interstate Travel: Constitutional Challenges to the Identification Requirement and Other Transportation Security Regulations*, by Todd B. Tatelman; Justin Florence, “Making the No Fly List Fly: A Due Process Model for Terrorist Watchlists,” 115 Yale L.J. 2148 (2006).

¹³⁰ See *Gilmore v. Gonzales*, 435 F.3d 1125 (9th Cir. 2006), cert. den. 549 U.S. 1110 (2007). “We reject Gilmore’s rights to travel argument because the Constitution does not guarantee the right to travel by any particular form of transportation.” 435 F.3d 1125, 1136(9th Cir. 2006).

¹³¹ 29 U.S.C. §794. For a more detailed discussion of Section 504 generally see CRS Report RL34041, *Section 504 of the Rehabilitation Act of 1973: Prohibiting Discrimination Against Individuals with Disabilities in Programs or Activities Receiving Federal Assistance*, by Nancy Lee Jones.

¹³² 42 U.S.C. §§12101 *et seq.* For a more detailed discussion of the ADA generally see CRS Report 98-921, *The Americans with Disabilities Act (ADA): Statutory Language and Recent Issues*, by Nancy Lee Jones. The ADA was recently amended by the ADA Amendments Act, P.L. 110-325, which rejects certain Supreme Court interpretations of the definition of disability and generally increases the likelihood that an individual will fall within the coverage of the definition. For a more detailed discussion of these amendments see CRS Report RL34691, *The ADA Amendments Act: P.L. 110-325*, by Nancy Lee Jones.

¹³³ 42 U.S.C. §1374(c). For a more detailed discussion of the ACAA generally see CRS Report RL34047, *Overview of the Air Carrier Access Act*, by Carol J. Toland.

¹³⁴ For a more detailed discussion of this issue in the ADA context see CRS Report RS22219, *The Americans with Disabilities Act (ADA) Coverage of Contagious Diseases*, by Nancy Lee Jones.

¹³⁵ 480 U.S. 273 (1987).

¹³⁶ *Id.* at 287.

the risk (what is the potential harm to third parties) and (d) the probabilities the disease will be transmitted and will cause varying degrees of harm.” The Court also emphasized that courts “normally should defer to the reasonable medical judgments of public health officials.”¹³⁷

The Americans With Disabilities Act

The ADA provides nondiscrimination protections to individuals with contagious diseases, but balances this protection with requirements designed to protect the health of other individuals. Title I of the ADA, which prohibits employment discrimination against otherwise qualified individuals with disabilities, specifically states that “the term ‘qualifications standards’ may include a requirement that an individual shall not pose a direct threat to the health or safety of other individuals in the workplace.”¹³⁸ In addition, the Secretary of Health and Human Services is required to publish, and update, a list of infectious and communicable diseases that may be transmitted through handling the food supply.¹³⁹

Similarly, Title III, which prohibits discrimination in public accommodations and services operated by private entities, states the following:

Nothing in this title shall require an entity to permit an individual to participate in or benefit from the goods, services, facilities, privileges, advantages and accommodations of such entity where such individual poses a direct threat to the health or safety of others. The term ‘direct threat’ means a significant risk to the health or safety of others that cannot be eliminated by a modification of policies, practices, or procedures or by the provision of auxiliary aids or services.¹⁴⁰

Although Title II, which prohibits discrimination by state and local government services, does not contain such specific language, it does require an individual to be “qualified” which is defined in part as meeting “the essential eligibility requirements of the receipt of services or the participation in programs or activities.”¹⁴¹ This language has been found by the Department of Justice to require the same interpretation of direct threat as in Title III.¹⁴²

Contagious diseases were discussed in the ADA’s legislative history. The Senate Report noted that the qualification standards permitted with regard to employment under Title I may include a requirement that an individual with a currently contagious disease or infection shall not pose a direct threat to the health or safety of other individuals in the workplace and cited to *School Board of Nassau County v. Arline*,¹⁴³ the Section 504 case discussed previously.¹⁴⁴ Similarly, the

¹³⁷ *Id.* at 288. These standards are incorporated into the regulations for the Air Carrier Access Act at 14 C.F.R. §382.51.

¹³⁸ 42 U.S.C. §12113(b). See also CRS Report RL33609, *Quarantine and Isolation: Selected Legal Issues Relating to Employment*, by Nancy Lee Jones and Jon O. Shimabukuro.

¹³⁹ 42 U.S.C. §12113(d). This provision was added in an amendment by Senator Hatch after a long debate over the Chapman Amendment, which was not enacted. The Chapman Amendment would have allowed employers in businesses involved in food handling to exclude individuals with specific contagious diseases such as HIV infection. See 136 Cong. Rec. 10911 (1990).

¹⁴⁰ 42 U.S.C. §12182(3).

¹⁴¹ 42 U.S.C. §12131(2).

¹⁴² 28 C.F.R. Part 35, Appx A.

¹⁴³ 480 U.S. 273, 287, note 16 (1987).

¹⁴⁴ S.Rept. 101-116, 101st Cong., 1st Sess. reprinted in Vol. I, Committee Print Serial No. 102-A *Legislative History of P.L. 101-336, The Americans with Disabilities Act*, prepared for the House Committee on Education and Labor at (continued...)

House report of the Committee on Education and Labor reiterated the reference to *Arline* and added, “[t]hus the term ‘direct threat’ is meant to connote the full standard set forth in the Arline decision.”¹⁴⁵

The Air Carrier Access Act¹⁴⁶

The Air Carrier Access Act (ACAA) prohibits discrimination by air carriers against “otherwise qualified individual[s]” on the basis of disability.¹⁴⁷ Enacted in 1986,¹⁴⁸ prior to the ADA, the ACAA contains no statutory reference to communicable diseases, but the regulatory text specifically addresses them.¹⁴⁹ Additionally, the regulatory definition of “individual with a disability” appears to include individuals with communicable diseases.¹⁵⁰ The regulations prohibit various actions by carriers against individuals with communicable diseases. A carrier may not “(1) [r]efuse to provide transportation to the passenger; (2) [d]elay the passenger’s transportation ... ; (3) [i]mpose on the passenger any condition, restriction, or requirement not imposed on other passengers; or (4) [r]equire the passenger to provide a medical certificate.”¹⁵¹ However, an exception applies when “the passenger’s condition poses a direct threat.”¹⁵² The regulations define “direct threat” as “a significant risk to the health or safety of others that cannot be eliminated by a modification of policies, practices, or procedures, or by the provision of auxiliary aids or services.”¹⁵³

(...continued)

139 (December 1990).

¹⁴⁵ H.Rept. 101-485, 101st Cong., 2nd Sess., reprinted in Vol. I, Committee Print Serial No. 102-A *Legislative History of P.L. 101-336, The Americans with Disabilities Act*, prepared for the House Committee on Education and Labor at 349 (December 1990). See also 136 Cong. Rec. 10858 (1990).

¹⁴⁶ This subsection was written by Carol J. Toland, Legislative Attorney. For a more detailed discussion of the ACAA see CRS Report RL34047, *Overview of the Air Carrier Access Act*, by Carol J. Toland.

¹⁴⁷ 49 U.S.C. §41705.

¹⁴⁸ Air Carrier Access Act of 1986, 100 Stat. 1080 (1986) (current version at 49 U.S.C. §41705).

¹⁴⁹ 14 C.F.R. § 382.21 (2009).

¹⁵⁰ 14 C.F.R. § 382.3 (2009) (referring to “a physical or mental impairment that, on a permanent or temporary basis, substantially limits one or more major life activities, has a record of such an impairment, or is regarded as having such an impairment”). Similarly, courts generally accept communicable diseases as falling within the scope of “disability” under the ADA if the diseases meet the same parameters that other physical or mental impairments must satisfy. See *Bragdon v. Abbott*, 524 U.S. 624, 631-42 (1998). Although no federal court has reached the issue, it follows that courts would likely reach similar conclusions under the ACAA.

¹⁵¹ 14 C.F.R. § 382.21(a) (2009).

¹⁵² 14 C.F.R. § 382.21(a) (2009).

¹⁵³ 14 C.F.R. § 382.3 (2009).

Liability Issues

The Public Readiness and Emergency Preparedness Act (PREP Act)¹⁵⁴

The “Public Readiness and Emergency Preparedness Act” (PREP Act),¹⁵⁵ created § 319F-3 of the Public Health Service Act, which limits liability with respect to pandemic flu and other public health countermeasures. Specifically, upon a declaration by the Secretary of Health and Human Services of a public health emergency or the credible risk of such emergency,¹⁵⁶ the PREP Act would, with respect to a “covered countermeasure,” eliminate liability, with one exception, i.e., “willful misconduct,” for the United States, and for manufacturers, distributors, program planners, persons who prescribe, administer or dispense the countermeasure, and employees of any of the above. A “covered countermeasure” includes (A) “a qualified pandemic or epidemic product,” (B) “a security countermeasure,” or (C) a drug, biological product, or device that is authorized for emergency use in accordance with section 564 of the Federal, Food, Drug, and Cosmetic Act (FFDCA). Each of the terms in (A), (B), and (C) is itself defined in the PREP Act.

The exception to immunity from liability is that a defendant who engaged in willful misconduct that caused death or serious physical injury would be subject to liability under a new federal cause of action, though not under state tort law. However, if Congress appropriates money for the new “Covered Countermeasure Process Fund,” victims could, in lieu of suing, accept payment under the new fund. Compensation under this fund would be in the same amount as is prescribed by sections 264, 265, and 266 of the Public Service Health Act for persons injured as a result of the administration of certain countermeasures against smallpox.¹⁵⁷ These three sections provide, respectively, medical benefits, compensation for lost employment income, and death benefits, but do not provide damages for pain and suffering.

Civil Liability of Volunteers and Volunteer Health Professionals¹⁵⁸

When disasters occur, it is common for volunteer health professionals (VHPs) to go to affected areas and offer their medical services. Typically, such individuals are licensed medical professionals who gratuitously provide their services in response to these regions’ clear need for medical skills and services. In these scenarios, questions have arisen regarding the potential civil liability of VHPs, particularly with regard to medical malpractice liability. The civil liability of VHPs may be a concern that arises within the context of the 2009 influenza pandemic depending upon the development of the pathogen and how future events unfold.

¹⁵⁴ This section was written by Vanessa Burrows, Legislative Attorney. For a more detailed discussion of the PREP Act see CRS Report RS22327, *Pandemic Flu and Medical Biodefense Countermeasure Liability Limitation*, by Henry Cohen and Vanessa K. Burrows.

¹⁵⁵ Division C of P.L. 109-148 (2005), 42 U.S.C. §§ 247d-6d, 247d-6e.

¹⁵⁶ This declaration authority is independent of the Secretary’s authority under Section 319 of the Public Health Service Act, 42 U.S.C. 247d, and other similar authorities.

¹⁵⁷ Sections 264, 265, and 266 were enacted by the Smallpox Emergency Personnel Protection Act of 2003, P.L. 108-20 (2003), and are codified, respectively, at 42 U.S.C. § 239c, 239d, and 239e.

¹⁵⁸ This section was written by Vivian S. Chu, Legislative Attorney. For a more detailed analysis of these issues see CRS Report R40176, *Emergency Response: Civil Liability of Volunteer Health Professionals*, by Vivian S. Chu.

A patchwork of federal and state laws generally operates to protect volunteers, which may include VHPs, and there are also laws that trigger liability protection specifically for VHPs. Whether a VHP is protected from civil liability depends on a number of factors, including under whose control the VHP operates and whether or not a state of emergency has been declared. It is important to note that liability protections shield volunteers from all civil liability for negligent conduct, i.e., a failure to take adequate care that results in injuries or losses to others. Civil liability for conduct that is more egregious than mere negligence, such as willful, or grossly negligent conduct, is generally not protected.

Volunteer Protection Acts

Laws shielding volunteers from liability have been enacted on both the federal and state level; these statutes apply in non-emergency situations as well as emergency situations. On the federal level, Congress passed the Volunteer Protection Act (VPA) in 1997.¹⁵⁹ This statute provides immunity to volunteers (not only medical volunteers) of non-profit organizations or governmental entities for ordinary negligence so long as certain conditions are met.¹⁶⁰ The VPA does not prohibit the non-profit or governmental entity from bringing a civil action against its own volunteers; nor does the VPA shield from liability the non-profit or governmental entity for the actions of its volunteers. Furthermore, it expressly preempts state standards that provide less protection.¹⁶¹ All fifty states and the District of Columbia have enacted their own volunteer protection statutes that provide liability protection greater than the federal VPA but to varying degrees. Additionally, many states have enacted statutory provisions geared specifically toward providing VHPs with immunity from civil liability and that, like the VPA, are not dependent on, or triggered by, an emergency situation.¹⁶²

Liability Protection During a State of Emergency

Except insofar as they waive it, the federal and state governments enjoy sovereign immunity from suit. The federal government has waived its immunity with the passage of the Federal Tort Claims Act,¹⁶³ and some state governments have similar statutory provisions. Such acts generally immunize government employees from tort liability for torts committed within their scope of employment, and instead allow the government to be held liable in accordance with the law of the state where a tort occurred.

An additional way to shield VHPs from individual civil liability during an emergency is to declare them non-paid employees of the federal government or a state government for liability purposes.¹⁶⁴ This can be done for particular volunteers in all situations or only when a general

¹⁵⁹ P.L. 105-19, codified, as amended, 42 U.S.C. § 14501 *et seq.* For background, see CRS Report 97-490, *Volunteer Protection Act of 1997*, by Henry Cohen.

¹⁶⁰ 42 U.S.C. § 14503(a).

¹⁶¹ *Id.* at § 14503(d). However, the VPA permits states to enact statutes that declare the non-applicability of the act “to any civil action in a State court against a volunteer in which all parties are citizens of the State.” See *id.* at § 14502. Thus far, only New Hampshire has done so.

¹⁶² In addition to VPAs, every state and the District of Columbia has enacted its own “Good Samaritan” statute, which protects individuals who gratuitously provide emergency assistance from civil liability.

¹⁶³ 28 U.S.C. §§ 1346(b), 2671-80. See CRS Report 95-717, *Federal Tort Claims Act*, by Henry Cohen and Vivian S. Chu.

¹⁶⁴ The Pandemic and All-Hazards Preparedness Act, P.L. 109-417, provides an example of such tort liability (continued...)

state of emergency or public health emergency has been declared.¹⁶⁵ Emergencies can be declared at both federal and state levels.¹⁶⁶ Every state has a regime for declaring a general emergency or disaster, and such a declaration can explicitly trigger liability protections or allow the governor to do so.¹⁶⁷ In addition to general emergency procedures, some states have regimes for public health emergencies, which, like general emergency management statutes, provide varying degrees of coverage. The declaration of a public health emergency triggers special protections for medical personnel, which often include liability protection for VHPs. Even where emergency or public health emergency statutes do not explicitly grant liability protections to VHPs, these statutes generally allow governors to impose such protections for volunteers where appropriate.

Emergency Mutual Aid Agreements

Emergency mutual aid agreements may be instituted among political subdivisions and Indian tribal nations within a state, out-of-state with neighboring political subdivisions, or internationally with Canadian provinces. Approved by Congress in 1996, the Emergency Management Assistance Compact (EMAC)¹⁶⁸ provides a prearranged structure for a state to request aid from other states when affected by disaster. Since 1996, all fifty states have agreed to the terms of EMAC, as have the District of Columbia, Puerto Rico, the U.S. Virgin Islands, and Guam. Under EMAC, a person from one state who renders assistance in another and who holds a license, certificate, or other permit for the practice of professional, mechanical, or other skills is considered to be licensed, certified, or permitted to exercise those duties in the requesting state, subject to limitations or conditions set by the governor of the requesting state. Notwithstanding the recognition of out-of-state licenses, reciprocity is not automatically extended to VHPs who do not provide services pursuant to an EMAC request for assistance. Following September 11, 2001, Congress created the Emergency System for Advance Registration of Volunteer Health Professionals so that emergency managers and others can have the ability to quickly identify and facilitate the use of VHPs in local, state, and federal emergency response.¹⁶⁹

(...continued)

protections. Under 42 U.S.C. § 300hh-11(d)(1), the Secretary of the HHS may appoint volunteer health professionals as intermittent personnel of the National Disaster Medical System (NDMS), which provides medical services when a disaster overwhelms local emergency services. NDMS volunteers benefit from the same immunity from civil liability as the employees of the Public Health Service. The Secretary may also accept the assistance of the VHPs as temporary volunteers under 42 U.S.C. § 217b. Under applicable regulations, such volunteers may receive legal protections including protection from civil liability claims under the FTCA. *See e.g.*, 45 C.F.R. § 57.5; *see* <http://www.hhs.gov/aspr/oepo/ndms/join/index.html>.

¹⁶⁵ *See also* CRS Report RS20984, *Public Health Service Act Provisions Providing Immunity from Medical Malpractice Liability*, by Henry Cohen; CRS Report 97-579, *Making Private Entities and Individuals Immune from Tort Liability by Declaring Them Federal Employees*, by Henry Cohen.

¹⁶⁶ *See* Sharona Hoffman, *Responders' Responsibility: Liability and Immunity in Public Health Emergencies*, 96 *Geo. L.J.* 1913, 1921 (2008).

¹⁶⁷ For a discussion of state public health emergency response authorities, *see* James G. Hodge and Evan D. Anderson, *Principles and Practice of Legal Triage During Public Health Emergencies*, 64 *N.Y.U. Ann. Surv. Am. L.* 649 (2008), available at, http://www1.law.nyu.edu/pubs/annualsurvey/issues/documents/64_NYU_ASAL_249_2008.pdf.

¹⁶⁸ P.L. 104-321. EMAC is intended to encourage mutual assistance in “any emergency or disaster that is duly declared by the governor of the affected state(s),” including “natural disaster, technological hazard, man-made disaster, civil emergency aspects of resources shortages, community disorders, or enemy attack.” EMAC, Art. I. *See also* CRS Report RL34585, *The Emergency Management Assistance Compact (EMAC): An Overview*, by Bruce R. Lindsay.

¹⁶⁹ Public Health Security and Bioterrorism Preparedness and Response Act § 107, 42 U.S.C. §247d-7b.

Employment Issues

Introduction¹⁷⁰

Questions relating to employment are among the most significant issues presented by an influenza pandemic, since, if individuals fear losing their employment or their wages, compliance with public health measures such as isolation or quarantine may suffer. Controlling or preventing an influenza pandemic involves the same strategies used for seasonal influenza. These strategies are vaccination, treatment with antiviral medications, and the use of infection control measures.¹⁷¹ A specifically targeted vaccine would not be available immediately since the exact strain of the virus would not be known until the pandemic occurs, and there may be limited supplies of antiviral medications. Therefore, the use of other infection control measures may be critical. The uses of quarantine and isolation, as well as social distancing and “snow days,” are discussed in the Homeland Security Council’s Pandemic Influenza Implementation Plan¹⁷² as ways to attempt to limit the spread of influenza.¹⁷³

Quarantine is defined as the “separation of individuals who have been exposed to an infection but are not yet ill from others who have not been exposed to the transmissible infection.”¹⁷⁴ Isolation is defined as the “separation of infected individuals from those who are not infected.”¹⁷⁵ Social distancing is defined as “infection control strategies that reduce the duration and/or intimacy of social contacts and thereby limit the transmission of influenza.”¹⁷⁶ Social distancing can include the use of face masks, teleconferencing, or school closures. “Snow days,” a type of social distancing, are the recommendation or mandate by authorities that individuals and families limit social contacts by remaining within their households.¹⁷⁷

The Centers for Disease Control and Prevention (CDC) issued interim planning guidance for communities to mitigate the impact of pandemic influenza.¹⁷⁸ This guidance introduced a Pandemic Severity Index, which ranks the severity of a pandemic like the categories given to hurricanes and links the severity to specific community interventions. The community interventions include isolation and voluntary quarantine, school dismissals, and the use of social distancing measures to reduce contact. The social distancing measures include the cancellation of

¹⁷⁰ This section was written by Nancy Lee Jones, Legislative Attorney.

¹⁷¹ Homeland Security Council, *National Strategy for Pandemic Influenza: Implementation Plan* 107 (GPO May 2006).

¹⁷² *Id.* at 72-73, 107-109.

¹⁷³ Although the precise effectiveness of these measures is not known, a study by the Institute of Medicine indicated that there is a role for community-wide interventions such as isolation or voluntary quarantine. Institute of Medicine, “Modeling Community Containment for Pandemic Influenza: A Letter Report,” Dec. 11, 2006.

¹⁷⁴ Homeland Security Council, *National Strategy for Pandemic Influenza: Implementation Plan* 209 (GPO May 2006).

¹⁷⁵ *Id.* at 207.

¹⁷⁶ *Id.* at 209.

¹⁷⁷ *Id.*

¹⁷⁸ Centers for Disease Control and Prevention (CDC), *Interim Pre-pandemic Planning Guidance: Community Strategy of Pandemic Influenza Mitigation in the United States—Early, Targeted, Layered Use of Nonpharmaceutical Interventions* (February 2007), <http://www.pandemicflu.gov/plan/community/mitigation.html>. The American Public Health Association has also issued recommendations with regard to comprehensive national planning for an influenza pandemic. See American Public Health Association, *APHA’s Prescription for Pandemic Flu* (February 2007) <http://www.apha.org/NR/rdonlyres/D5017DB9-F400-4399-A656-939C4C8DF259/0/FLUpolicycomplete.pdf>.

large public gatherings and the alteration of workplace environments and schedules to decrease social density.¹⁷⁹ The guidance noted the importance of workplace leave policies that would “align incentives and facilitate adherence with the nonpharmaceutical interventions....”¹⁸⁰

Strategies to minimize the impact of workplace absenteeism were discussed in some detail and included the use of staggered shifts and telework. Unemployment insurance was mentioned as potentially available, as was disaster unemployment assistance. The guidance also observed that the Family and Medical Leave Act may offer some job security protections.¹⁸¹

The National Governors Association Center for Best Practices (NGA Center) conducted nine regional pandemic preparedness workshops during 2007 and 2008 to “examine state pandemic preparedness, particularly in non-health-related areas such as continuity of government, maintenance of essential services, and coordination with the private sector.” A report analyzing the information gained during these workshops identified areas in which new or improved policies and procedures are necessary to improve pandemic preparedness. One of these areas was workforce policies. The NGA Center concluded:

Every sector examined in this report will be affected by the availability of workers during a pandemic. In general, states and the private sector should develop and test policies affecting the willingness and ability of personnel to perform their duties, whether in traditional or alternative settings. Potential strategies and or guidance addressing telecommuting, alternative schedules, or modified operating hours for retail establishments and Internet or distance-learning programs for school children would be particularly useful. During a pandemic, almost everyone will be susceptible to the illness. A central disease control strategy will be keeping sick people away from others to minimize the spread of infection. Employers should examine their human resource policies and, if needed, create new policies that would allow sick workers to stay at home during a pandemic. When possible, states and private sector employers should collaboratively develop policies that effectively balance the need of some workers to care for sick (or healthy) family members for extended periods of time with the requirements government and private sector continuity of operations plans.¹⁸²

Wrongful Discharge in Violation of Public Policy¹⁸³

The employment-at-will doctrine governs the employment relationship between an employer and employee for most workers in the private sector. An employee who does not work pursuant to an employment contract, including a collective bargaining agreement that may permit termination only for cause or may identify a procedure for dismissals, may be terminated for any reason at any time.

Although the employment-at-will doctrine provides the default rule for most employees, it has been eroded to some degree by the recognition of certain wrongful discharge claims brought against employers. In general, these wrongful discharge claims assert tort theories against the employer. A cause of action for wrongful discharge in violation of public policy is one such

¹⁷⁹ *Id.* at 19.

¹⁸⁰ *Id.*

¹⁸¹ *Id.* at 51-52.

¹⁸² National Governors Association Center for Best Practices, *Pandemic Preparedness in the States: An Assessment of Progress and Opportunity*, (September 2008).

¹⁸³ This section was written by Jon O. Shimabukuro, Legislative Attorney.

claim. If isolation or a quarantine were used to attempt to limit the spread of a pandemic influenza virus and an employee was terminated because of absence from the workplace, a claim for wrongful discharge in violation of public policy might arise.

A claim for wrongful discharge in violation of public policy is grounded in the belief that the law should not allow an employee to be dismissed for engaging in an activity that is beneficial to the public welfare. In general, the claims encompass four categories of conduct:

- refusing to commit unlawful acts (e.g., refusing to commit perjury when the government is investigating the employer for wrongdoing);
- exercising a statutory right (e.g., filing a claim for workers' compensation, reporting unfair labor practices);
- fulfilling a public obligation (e.g., serving on jury duty); and
- whistleblowing.¹⁸⁴

Although most states appear to recognize a claim for wrongful discharge in violation of public policy, it is possible that a state may allow a claim only under certain circumstances. For example, Texas recognizes such a claim only if an employee is terminated for refusing to perform an illegal act or inquiring into the legality of an instruction from the employer.¹⁸⁵

While the four categories of conduct identified above represent the classic fact patterns for a claim of wrongful discharge in violation of public policy, other actions could be deemed beneficial to the public welfare and result in a wrongful discharge claim if an employee is terminated for engaging in such actions. Some courts have broadly defined what constitutes "public policy." For example, in *Palmateer v. International Harvester Co.*, the Illinois Supreme Court indicated that

[t]here is no precise definition of the term. In general, it can be said that public policy concerns what is right and just and what affects the citizens of the State collectively. It is to be found in the State's constitution and statutes and, when they are silent, in its judicial decisions.¹⁸⁶

Similarly, in *Boyle v. Vista Eyewear, Inc.*, the Missouri Court of Appeals stated that public policy "is that principle of law which holds that no one can lawfully do that which tends to be injurious to the public or against the public good."¹⁸⁷ These broad definitions suggest that an employee's isolation or quarantine during a pandemic in some states could possibly provide a public policy exception to the at-will rule of employment. It would seem possible for a court to conclude that the isolation or quarantine of individuals during a pandemic serves the public good and that the termination of individuals who are isolated or quarantined violates public policy. Some observers insist, however, that no court has ever held that it violates public policy to discharge an individual because he or she missed work because of a quarantine.¹⁸⁸

¹⁸⁴ See Steven L. Willborn et al., *Employment Law: Cases and Materials* 82 (1993); John F. Buckley and Ronald M. Green, 2006 State by State Guide to Human Resources Law 5-46 (2006).

¹⁸⁵ See Buckley and Green at 5-59.

¹⁸⁶ 421 N.E.2d 876, 878 (Ill. 1981).

¹⁸⁷ 700 S.W.2d 859, 871 (Mo. Ct. App. 1985).

¹⁸⁸ See Mark A. Rothstein and Meghan K. Talbott, *Job Security and Income Replacement for Individuals in* (continued...)

If the government were to mandate individuals to isolate or quarantine themselves either because they were infected or because of the risk of infection, it would seem that such an action would constitute an even stronger argument for the public policy exception to the at-will rule of employment. In such case, the government would appear to be identifying a significant policy that would benefit the public good. However, even if the government merely recommended isolation or quarantine rather than mandated such actions, a strong argument for a public policy exception to the at-will rule would still seem possible. In either case, the government would seem to be establishing a policy in furtherance of the public's best interests.

The Family and Medical Leave Act¹⁸⁹

Overview of Family and Medical Leave Rights

The Family and Medical Leave Act¹⁹⁰ ("FMLA") guarantees eligible employees 12 workweeks of unpaid leave during any 12-month period for one or more of the following reasons:

- because of the birth of a son or daughter of the employee and in order to care for such son or daughter;
- because of the placement of a son or daughter with the employee for adoption or foster care;
- in order to care for a spouse or a son, daughter, or parent of the employee, if such spouse, son, daughter, or parent has a serious health condition; and
- because of a serious health condition that makes the employee unable to perform the functions of the position of such employee.¹⁹¹

The FMLA defines an "eligible employee" as one who has been employed for at least 12 months by the employer from whom leave is requested, and who has been employed for at least 1,250 hours of service with such employer during the previous 12-month period.¹⁹² The FMLA applies only to employers engaged in commerce (or in an industry affecting commerce) that have at least 50 employees who are employed for each working day during each of 20 or more calendar workweeks in the current or preceding calendar year.¹⁹³

(...continued)

Quarantine: The Need for Legislation, 10 J. Health Care L. & Pol'y 239 (2007).

¹⁸⁹ This section was written by Jon O. Shimabukuro, Legislative Attorney.

¹⁹⁰ 29 U.S.C. §§ 2601-2654. For additional discussion of the Family and Medical Leave Act, see CRS Report RS22090, *The Family and Medical Leave Act: Background and U.S. Supreme Court Cases*, by Jon O. Shimabukuro.

¹⁹¹ 29 U.S.C. § 2612(a)(1).

¹⁹² 29 U.S.C. § 2611(2). The term "eligible employee" does not include most federal employees. Federal employees are covered generally under the Federal Employees Family Friendly Leave Act ("FEFFLA"). See 5 U.S.C. § 6307(d) (permitting the use of sick leave to care for a family member having an illness or injury, and to make arrangements for or to attend the funeral of a family member). The U.S. Office of Personnel Management has issued a document that contemplates telework, alternative work arrangements, and excused absences during a pandemic. See U.S. Office of Personnel Management, *Human Capital Planning for Pandemic Influenza* (2006) <http://www.govexec.com/pdfs/HandbookOPM2ndJuly72006.pdf>.

¹⁹³ 29 U.S.C. § 2611(4)(I). See also 29 U.S.C. § 2611(2)(B)(ii). (Employers who employ 50 or more employees within a 75-mile radius of an employee's worksite are subject to the FMLA even if they may have fewer than 50 employees at a single worksite.)

During an influenza pandemic, the FMLA would seem to provide infected employees and employees who care for certain infected relatives with the opportunity to be absent from the workplace.¹⁹⁴ The FMLA defines a “serious health condition” to mean “an illness, injury, impairment, or physical or mental condition” that involves either “inpatient care in a hospital, hospice, or residential medical care facility; or ... continuing treatment by a health care provider.”¹⁹⁵ An employee who was affected by a pandemic influenza virus may be found to have a serious health condition. If the FMLA’s eligibility requirements were met, such an employee would likely be granted leave under the statute.¹⁹⁶

In addition, because the FMLA grants leave to an employee to care for a spouse, child, or parent with a serious health condition, an employee could be granted leave to care for a relative who was affected by a pandemic influenza virus if the employee met the statute’s eligibility requirements. While on leave, the employee with the serious health condition or the employee caring for a spouse, child, or parent with a serious health condition could be isolated or quarantined without the fear of termination for at least 12 workweeks.¹⁹⁷

In contrast, an employee who was not infected by a pandemic influenza virus or who was not responsible for the care of a spouse, child, or parent infected by such a virus would not be protected by the FMLA. If such an employee sought isolation or quarantine to avoid exposure and was absent from the workplace, the FMLA would not prohibit the employer from terminating the employee.

State and Federal Laws Providing Employment Protections

At least six states, recognizing the lack of statutory protection for employees in a situation where isolation or quarantine may be necessary, have enacted legislation that explicitly prohibits the termination of an employee who is subject to isolation or quarantine. In Delaware, Iowa, Kansas, Maryland, Minnesota, and New Mexico, an employer is prohibited from terminating an employee who is under an order of isolation or quarantine, or has been directed to enter isolation or quarantine.¹⁹⁸ Under Minnesota law, an employee who has been terminated or otherwise penalized for being in isolation or quarantine may bring a civil action for reinstatement or for the recovery of lost wages or benefits.¹⁹⁹

Two additional states have enacted legislation that addresses the treatment of employees who are subject to quarantine or isolation. Under New Jersey law, an affected employee must be reinstated following the quarantine or isolation.²⁰⁰ Under Maine law, an employer is required to grant leave

¹⁹⁴ See CDC, *supra* note 178 (explaining that absenteeism for child minding could last as long as 12 weeks for a severe pandemic).

¹⁹⁵ 29 U.S.C. § 2611(11).

¹⁹⁶ It is possible that an employee could be affected by a pandemic influenza virus and not develop a serious health condition. In such case, the employee would not be eligible for leave under the Family and Medical Leave Act.

¹⁹⁷ Although the Family and Medical Leave Act allows for at least 12 workweeks of leave, it does not guarantee the payment of wages during such leave. Under section 102(d)(2)(B) of the act, 29 U.S.C. § 2612(d)(2)(B), an employer may require the employee to substitute paid vacation or sick leave for the leave granted under the act. If such a substitution is not made, the employee is likely to be granted unpaid leave.

¹⁹⁸ Del. Code Ann. tit. 20, § 3136(6)(d); Iowa Code § 139A.13A; Kan. Stat. Ann. § 65-129d; Md. Code Ann., Health-Gen. § 18-906; Minn. Stat. § 144.4196; N.M. Stat. Ann. § 12-10A-16.

¹⁹⁹ Minn. Stat. § 144.4196.

²⁰⁰ N.J. Rev. Stat. § 26:13-16.

to an employee who is subject to quarantine or isolation.²⁰¹ The leave granted by the employer may be paid or unpaid.²⁰²

Although federal law does not protect from termination employees who may be absent from the workplace because of isolation or quarantine, there are examples of employee protections that are arguably analogous.²⁰³ The FMLA, for example, does grant leave to an eligible employee who has a serious health condition or who provides care to a spouse, child, or parent with a serious health condition. Moreover, an expansion of the FMLA to allow for at least eight weeks of paid leave because of a serious health condition or to care for a spouse, child, or parent with such a condition has been proposed.²⁰⁴ The availability of paid leave would likely minimize concerns about lost wages during an influenza pandemic.²⁰⁵

The Uniformed Services Employment and Reemployment Rights Act (USERRA) provides another example of employee protection.²⁰⁶ USERRA requires the reemployment of an employee who has been absent from a position of employment because of service in the uniformed services. USERRA and the FMLA illustrate Congress's awareness of events that may necessitate an employee's absence from the workplace.

²⁰¹ Me. Rev. Stat. Ann. tit. 26, § 875.

²⁰² The availability of wage or income replacement because of quarantine or isolation has been addressed by some commentators. See, e.g., Nan D. Hunter, "Public-Private" Health Law: Multiple Directions in Public Health, 10 J. Health Care L. & Pol'y 89 (2007). Many commentators maintain that existing wage or income replacement programs, such as unemployment and workers compensation, would probably not provide compensation for most employees affected by quarantine or isolation. Replacement wages were, however, reportedly paid during at least one quarantine. During the 1916 polio epidemic, quarantined families in the village of Glen Cove, New York received replacement wages. See Guenter B. Risse, *Revolt Against Quarantine: Community Responses to the 1916 Polio Epidemic, Oyster Bay, New York*, Transactions & Stud. of the College of Physicians of Philadelphia, Mar. 1992, at 34 ("Garbage cans were distributed free of charge, and quarantined families received replacement wages to compensate for loss of income"). Disaster unemployment assistance pursuant to the Stafford Act may also be a possibility if it is determined that the act is applicable to an influenza pandemic. See CRS Report RL34724, *Would an Influenza Pandemic Qualify as a Major Disaster Under the Stafford Act?*, by Edward C. Liu; CRS Report RS22022, *Disaster Unemployment Assistance (DUA)*, by Julie M. Whittaker and Alison M. Shelton (discussing the availability of disaster unemployment benefits pursuant to a disaster declaration under the Stafford Act).

²⁰³ During the SARS (Severe Acute Respiratory Syndrome) epidemic, Canadian laws and regulations were amended to provide for special employment insurance coverage for health care workers who were unable to work because of SARS and to provide for unpaid leave if an individual was unable to work due to a SARS-related event, such as being under individual medical investigation. See Institute for Bioethics, Health Policy and Law, *Quarantine and Isolation: Lessons Learned from SARS* at 58-59 (November 2003).

²⁰⁴ See Family Leave Insurance Act of 2007, S. 1681, 110th Cong. (2007). For additional information on leave benefits available pursuant to federal law, see CRS Report RL34088, *Leave Benefits in the United States*, by Linda Levine.

²⁰⁵ Some states are exploring the availability of paid leave as part of their state disability insurance programs. In 2002, legislation that extends disability insurance benefits to individuals who are unable to perform their work because they are "caring for a seriously ill child, parent, spouse, or domestic partner" was enacted in California. See Cal. Unemp. Ins. Code §§ 3300-3306. Under the so-called Paid Family Leave Insurance Program, an individual who meets the program's requirements is eligible for benefits equal to one-seventh of the individual's weekly benefit amount on any day in which he or she is unable to perform the individual's regular or customary work. Similar legislation has been enacted in New Jersey. See A. 873, 213th Leg., Reg. Sess. (N.J. 2008).

²⁰⁶ 38 U.S.C. §§ 4301-4333.

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