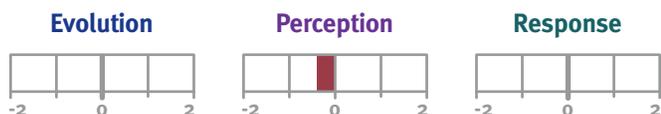


Friday, July 17, 2009

OXFORD RELEASES H1N1/09 ECONOMIC IMPACT ESTIMATES

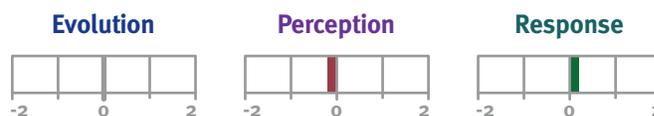
Today Oxford Economics released an article estimating the possible impacts of the H1N1/09 pandemic on the global and U.K. economies. The estimates reflect the current environment, past pandemic experiences, the SARS outbreak, and assume that 30% of the global population would become infected. The analysis concluded that if the H1N1/09 virus emerges more severe in the northern hemisphere when flu season comes around this fall and winter, the U.K. could see a 5% loss of GDP. It also estimates that there is a risk that the combination of a severe pandemic and the current economic crisis could tip the U.K. and global economies into states of deflation, where the U.K. CPI could fall to -1% the next two years with GDP growth around -7.5%.¹



NEW U.K. H1N1/09 CALL CENTER OPENS TO RUSH OF CALLS

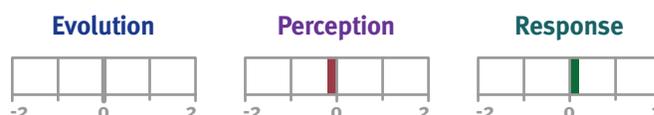
Today, a new H1N1/09 call center was opened in Colchester, U.K. in a government effort to continue to create additional measures for citizens to seek answers or help in regards to the H1N1/09 virus. During the first nine hours that the center's eight telephone lines were open it fielded over 400 calls. A call center officer said they are already implementing plans to train more people and open up more lines. Most of the calls were from people

who were already diagnosed with the virus and needed to get special reference numbers so a "flu friend" could pick up antiviral medication for them.²



PERU POSTPONES TRADITIONAL INDEPENDENCE PARADE

Peru's Health Minister announced today that the Council of Ministers' Presidency has made the decision to cancel the traditional military parade because of the spread of H1N1/09. The parade is a tradition for Peru's independence celebration and usually attracts over 150,000 people. The Health Minister said that due to the rapid spread of the virus, and large gathering the event would attract, it is in the country's best interest to postpone the parade in order to avoid more spreading of the virus.³



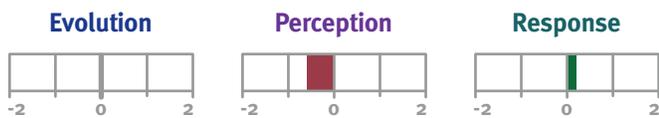
THAILAND HOSPITAL REACHING BREAKING POINT

At a Thai Health Promotion Foundation meeting today, doctors called for the Prime Minister to implement more social distancing measures in response to overwhelming outbreaks of H1N1/09. A senior doctor from Chulalongkorn Hospital said that the hospital was

This document has been prepared by bio-era as a part of the "Thinking Ahead" service, designed to support commercial decision-making in response to the anticipated commercial and economic impacts of novel H1N1 pandemic influenza. The service seeks to monitor and evaluate current developments based on their significance with respect to three criteria: the significance of the news item for (1) the evolution of the physical disease event; (2) its effects on perceptions of threat (i.e., fear); and (3) examples of reaction or response to (1) and (2) above. To the extent possible, bio-era seeks to integrate an understanding of the particular news items identified as leading indicators or signposts within a broader bio-era scenario-based decision-support framework. To learn more about the service, the scenarios framework, or to enroll, please visit www.bio-era.net.

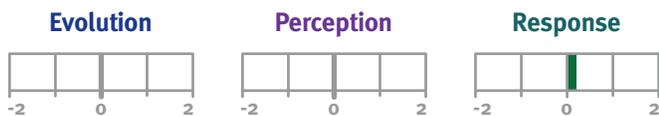
becoming so overwhelmed with suspected and confirmed H1N1/09 cases that it may not be able to handle the pressure much longer. He claims the hospital has been seeing thousands of people and treating hundreds of patients daily with flu like symptoms, and he fears public panic at any larger scale would worsen the situation. The prime minister stood strong on his stance against any social distancing measures though, concerned about the legal complications and social consequences a ban on public gatherings would produce.⁴

The Thailand government has been taking other steps to try and prevent the spread of H1N1/09. Preventative supplies such as facemasks are out of stock all over the country, but the Ministry of Commerce is stepping in to make sure stores do not unfairly raise prices of masks when they get more in stock. The Health Ministry is currently working on creating small manuals with information about how to administer self-care for flu like symptoms, in hopes that people with only mild symptoms will stay home and treat themselves.⁵



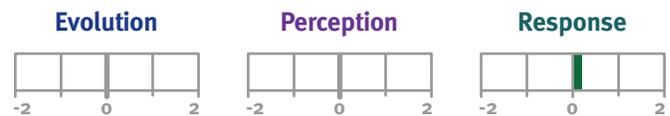
ARGENTINA DECLARES SANITARY EMERGENCY

Argentine health officials declared a sanitary state of emergency today because of the confirmation of the H1N1/09 virus in a herd of pigs. The announcement comes two weeks after a report that it was suspected the virus was transmitted from farmers to the herd of pigs. The declaration gives officials extra funding to deal with herd outbreaks, as well as allows for increased testing on farms and slaughter houses for early detection.⁶



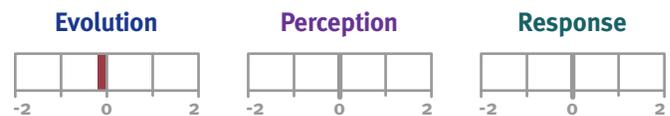
U.S. ISSUES TRAVEL ALERT FOR ARGENTINA

The U.S. State Department officially released a travel alert for people traveling to Argentina. The alert was issued because of the current health risks associated with the H1N1/09 virus spreading throughout the country. The Center for Disease Control (CDC) is recommending that Americans in high risk H1N1/09 groups such as pregnant women, children, and people with underlying conditions consult their doctors before traveling to Argentina and other H1N1/09 affected countries.⁷ Earlier this week Argentine health officials announced the country's H1N1/09 related death toll had reached 137, the second largest death toll in the world only trailing the U.S.



H1N1 TREND UPDATE

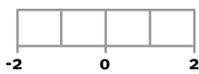
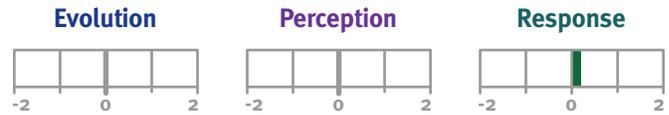
Yesterday Sudan announced its first confirmed cases of the H1N1/09 virus. The cases were confirmed in two citizens who recently returned from the U.K.⁸ On July 15, Haiti confirmed its first cases of the H1N1/09 virus in two Chilean soldiers who recently arrived from Chile to serve the United Nations and a Haitian citizen.⁹



BAXTER EXCEEDS VACCINE CAPACITY

Yesterday, American drug maker Baxter announced that it has filled its H1N1/09 vaccine order capacity and will not be taking further orders. Baxter has orders for 80 million doses of their H1N1/09 vaccine from five countries, along with a portion of doses that it will be allocating to the

WHO. Baxter plans to begin shipping its first doses of the vaccine within the next couple weeks. The United States is not one of the clients on Baxter's order list, because the vaccine has yet to be approved by the Food and Drug Administration.¹⁰



Bio-era's judgement regarding the extent to which a development is positive or negative for: (1) the physical evolution of the disease, (2) perceptions of the disease, and (3) future disease event impacts.

	-2	0	2
Physical Evolution How significant is the development with respect to the evolution, transmissability, and virulence of the disease?	Indicates or portends higher transmission, transmissability, and/or virulence of the disease		Indicates or portends lower transmission, transmissability, and/or virulence of the disease
Perception How significant is the development with respect to perceptions of threat (i.e., fears of the disease)?	Indicates or promotes heightened fear of the disease		Indicates or promotes lower fear of the disease
Response/Reaction To what degree does the response help or hinder the effort to mitigate the impacts the disease?	Expected to exacerbate disease impacts		Expected to mitigate disease impacts

- 1 *Oxford Economics*. "Could Swine Flu Tip the World into Deflation?" July 17, 2009. See: [http://www.oef.com/free/pdfs/ukmswineflu\(jul09\).pdf](http://www.oef.com/free/pdfs/ukmswineflu(jul09).pdf)
- 2 *The Gazette*. "Busy start for swine flu call center." July 17, 2009. See: <http://www.gazette-news.co.uk/news/4497934>. Busy_start_for_swine_flu_call_centre/
- 3 *Living In Peru*. "Peru authorities postpone military parade due to AH1N1 influenza." July 17, 2009. See: <http://www.livinginperu.com/news/9604>
- 4 *The Nation*. "Chulalongkorn hospital near breaking point over intake of flu cases." July 17, 2009. See: http://www.nationmultimedia.com/2009/07/18/national/national_30107768.php
- 5 *The Nation*. See: [iv].
- 6 Reuters. "Argentina declares animal health emergency over flu." July 17, 2009. See: http://www.swissinfo.ch/eng/news/international/Argentina_declares_animal_health_emergency_over_flu.html?siteSect=143&sid=10969536&cKey=1247842436000&ty=ti
- 7 US State Department. "Travel Alert: Argentina." July 17, 2009. See: http://travel.state.gov/travel/cis_pa_tw/pa/pa_4540.html
- 8 Reuters. "Sudan reports first H1N1 flu cases." July 16, 2009. See: <http://www.reuters.com/article/africaCrisis/idUSHEA670400>
- 9 Xinhua. "Haiti reports first three A/H1N1 flu cases." July 15, 2009. See: http://news.xinhuanet.com/english/2009-07/16/content_11716451.htm
- 10 Reuters. "Baxter can take no more H1N1 flu vaccine orders." July 16, 2009. See: <http://www.reuters.com/article/usDollarRpt/idUSN1644290820090716>