Talking about sex
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Many experts believe that avian influenza is a time bomb for human health. But how do we deal with the many uncertainties surrounding the issue? Two leading risk communication experts give their best advice on sounding the alarm about what might be the next great flu pandemic—or not.

The Man Who Made Polio History
by Sara Francis Fujimura

This year marks the 50th anniversary of the first polio vaccine, the killed-virus version developed by U.S. virologist Jonas Salk. Others contributed equally to the world’s battle against this crippling childhood disease. But few have been remembered as well as or fondly as the controversial Dr. Salk.

All He Talks About Is Sex
by Romana Talakma

Brazilians know him for his boyish looks, risqué humor, and lack of inhibition in talking about anything and everything having to do with sex. But Jairo Bosher has a serious mission: getting young people to think responsibly about the critical choices they’ll have to make as they embark on their sexual careers.

Bird Flu: Communicating the Risk
by Peter M. Sandman and Jody Lanard

Many experts believe that avian influenza is a time bomb for human health. But how do we deal with the many uncertainties surrounding the issue? Two leading risk communication experts give their best advice on sounding the alarm about what might be the next great flu pandemic—or not.

The Americas have made great strides in improving maternal and child health in recent decades. But significant challenges remain. This year’s World Health Day campaign points out that too many women and children still suffer deaths and illnesses that could be prevented using the knowledge and means that we already have.

Soccer and other sports provide a great way for kids to stay in shape, develop skills, and bond with fellow team members. Now experts in child and adolescent health are tapping into popular children’s sports to help young players learn new ways of living a healthier life.
Health authorities want to spread the word that avian influenza has brought the world perilously close to a new flu pandemic. But raising awareness about uncertain threats can itself be perilous. Two leading risk communication experts offer advice on how to sound the alarm.

Officials don’t want to be accused of needlessly frightening the public. They also don’t want to be accused later of leaving the public underprepared for a disaster.

Health authorities know that too soft a warning just won’t get heard; it’s not easy to pierce people’s apathy and squeeze yet another problem onto our already crowded lists of concerns. But they fear that too loud a warning could overshoot, provoking needless (or at least premature) fear and economic damage, perhaps even panic and an every-man-for-himself chaos. Authorities often miss the middle ground that can help build mutual trust: involving the public early, arousing an appropriate level of public fear, and helping people bear it. Risk communication is a set of skills and understandings that can help health officials find and hold this middle ground.

By Peter M. Sandman and Jody Leonard

P ublic health officials have a pandemic-size communication problem. Experts believe a deadly influenza pandemic is quite likely to be launched by the H5N1 avian virus that has killed millions of birds and dozens of people in Asia. They are more anxious than they have been in decades. But infectious diseases are unpredictable. H5N1 could disappear—as swine flu did in 1976—and “The Great Pandemic of 2____” could arise from a strain that doesn’t even exist yet. Even if H5N1 does cause a human pandemic, it might weaken and produce only mild disease. So it’s hard for officials to know how aggressively to sound the alarm. They don’t want to be accused—later—of leaving the public underprepared for a disaster.

Communication wouldn’t be such a problem if it were possible to get ready for the next pandemic without talking to the public. It isn’t. Health authorities want the public to be aware of this grave threat for three fundamental reasons: so people will prepare themselves emotionally and logistically; so people will help their schools, businesses, hospitals, and other organizations prepare; and so people will support the preparedness efforts of their governments. And there’s a fourth reason: If and when a pandemic begins, people who have had time to get used to the idea are likelier to understand their risks, follow official advice, and take an active role in protecting themselves.

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Our first paragraph above features several key risk communication approaches. It uses responsible speculation, it acknowledges uncertainty, it shares dilemmas about what to do, and it does not aim for zero fear.
Flu again? Who cares?

Influenza has long been the neglected child in the infectious disease family. Every winter, tens of millions of people get the flu. Most are home, sick and miserable, for about a week. Some—mostly the elderly—die. We know the worldwide death toll exceeds a few hundred thousand people a year, but even in developed countries numbers are uncertain, because medical authorities don’t usually verify who actually died of influenza and who died of a “flu like illness.” People think of the flu as a minor nuisance. Even a major controversy like last year’s contamination of half the U.S. vaccine supply provokes only a temporary blip in flu anxiety. For a few weeks people stood in line to get vaccinated (and were inaccurately seen as panicking by many harassed officials). By December, officials report that the flu season is over. The “hype” often compare the new disease to the “regular” flu. Most are home, sick and miserable, for about a week. Some—mostly the elderly—die. We know the worldwide death toll exceeds a few hundred thousand people a year, but even in developed countries numbers are uncertain, because medical authorities don’t usually verify who actually died of influenza and who died of a “flu like illness.” People think of the flu as a minor nuisance. Even a major controversy like last year’s contamination of half the U.S. vaccine supply provokes only a temporary blip in flu anxiety. For a few weeks people stood in line to get vaccinated (and were inaccurately seen as panicking by many harassed officials). By December, officials report that the flu season is over. The “hype” often compare the new disease to the “regular” flu.

Not your ordinary flu!

In 1997, a child in Hong Kong died not of human flu but of bird flu, an avian influenza strain known to virologists as H5N1. Since then H5N1 has spread in- corroborately throughout Southeast Asia’s bird population. It is a big problem for the poultry industry. So far it is only a small problem for human health. More than a hundred people are known to have caught H5N1 directly from birds. A couple of people are thought to have caught it from other people. But more than half of the confirmed cases have died. And a high percentage of the dead were young and otherwise healthy.

Because H5N1 has never infected hu- mans before, people have no natural im- munity to it, and there is not yet an H5N1 vaccine developed and approved for human use. The only thing protecting us from H5N1 is that so far bird flu is a hard disease for people to catch. But in- fluenza viruses keep changing. They mu- tate. And they exchange genetic material with other flu viruses, a process called re- assortment. All that’s needed to launch a human health crisis is a mutation or re- assortment that produces a new variant of H5N1 that transmits easily between peo- ple the way “regular” flu does. If that happens, we face a worldwide epidemic: a pandemic.

Most virologists fear an H5N1 pan- demic will happen sooner or later. Many fear it will happen soon. The unprece- dented and almost inconceivable worst case is a human strain as deadly as the cur- rent hard to transmit H5N1 strain, but as easily transmitted as the annual flu. That could literally end life as we know it. Not so dire but still worse than any pandemic in living memory: a strain that transmits easily and kills, say, 5–10 percent of its vic- tims. (The grandaddy of flu pandemics, the Spanish flu of 1918–19, killed about 2.5 percent.) Do the math. The world population is 6.4 billion. A pandemic that struck 5 percent of the population and killed 5 percent of those it struck would cause 96 million deaths. An H5N1 vaccine could cut this number sharply—if scientists can develop one that works, if govern- ments can license it, and if manufacturers can make enough of it. Those are big ifs, especially the last one; most of the world’s poorer countries get virtually no vaccine against the annual flu now.

Even in the experts’ best-case scenarios—2–7 million deaths—a flu pandemic could slow travel to a trickle, lead cities to forebl inessential gatherings, and precipitate a worldwide depression. Preparing for it could include, among other things: na- tional governments streamlining vaccine approval procedures; school boards decid- ing whether and how to close the schools for extended periods; businesses planning for the twin problems of absenteeism and presenteeism (sick people bringing the virus to work with them); hospitals stock- piling antiviral medications and personal protective equipment for staff; communi- ties figuring out how to recruit and use volunteers to keep essential services run- ning—including the all-important sur- vivors of the first pandemic wave, who will be the only ones immune before a vaccine becomes available.

All of this information is publicly avail- able. Most people have already heard a little about bird flu. But people face a host of other problems, and except for public health officials and poultry farm- ers, few are gearing up for action about H5N1. Yet. Enter risk communication. Although people have always tried to figure out how to communicate about risks, the field of risk communication dates back only to the mid-1980s with the rise of health education, public relations, psychology, risk perception, and risk assessment. There are at least three kinds of risk com- munication:

• Precipation advocacy (“Watch out!”): How to alert people to serious hazards when they are unduly un- aware.
• Outrage management (“Calm down!”): How to reassure people about minor hazards when they are unduly upset.
• Crisis communication (“We’ll get through it together!”): How to guide people through serious hazards when they are appropriately upset (or even in denial).

Bird flu risk communication is partly precaution advocacy and partly crisis com- munication. It’s precaution advocacy if you’re talking to Southeast Asian poultry farmers who haven’t heard much yet about bird flu. It’s crisis communication if you’re talking to poultry farmers who are trying to figure out how to cope with this huge new threat to their flocks, their livelihoods, and potentially their lives. It will be crisis communication everywhere if and when the pandemic materializes.

Meanwhile, for most of us, it’s precau- tion advocacy. Many infectious disease ex- perts are as worried about H5N1 as they have ever been about any microorganism. They feel weirdly alienated when they try to explain their worry to spouses or friends—or the general public. They have convinced a few medical journalists, who then feel weirdly alienated when they try to explain their worry to their editors. Bird flu is way over there in Asia. H5N1 is still flu, and flu is still the sort of risk people don’t take all that seriously.

The recommendations listed below are grounded in two convictions: that moti- vating people to start taking bird flu seri- ously should be a top priority for government health departments, and that risk communication principles provide the best guidance on how to do so. The world’s governments will inevitably vary in the extent to which they agree. How ag- gressively will these recommendations be followed? How well will they work? Nobody knows yet.
1. Start where your audience starts

Telling people who believe X that they ought to believe Y naturally provokes resistance. You can't ignore X and just say Y. You can't simply tell people they're wrong. You've got to start where they are, with X, and empathetically explain why X seems logical, why it's widely believed, why you used to believe it too ... and why, surprisingly, Y turns out to be closer to the truth.

The biggest barrier to sounding the alarm about bird flu is that it's usually seen as a low-harm disease. It would help if people stopped calling every minor respiratory infection "a touch of the flu," but that's not going to happen. Empathy is the only answer. Instead of ignoring the fact that people think flu is minor, or belittling people for thinking that flu is minor, acknowledge that even some public health authorities use the term "flu" in ways that minimize its seriousness. (A senior U.S. health official recently apologized for his wife's absence at an event by saying she was home with "a stomach flu"—a non-malignant description! After making common cause with the public—"we have all ignored influenza for too long"—talk about how horrific the next flu pandemic might be compared with the annual flu.

2. Don't be afraid to frighten people

Fear appeals have had a bad press, but the research evidence that they work is overwhelming. Although people don't usually stay very frightened very long, getting them a little frightened for a little while motivates precautionary thinking and precautionary action (assuming some precautions are available).

There is one key exception. When people are already terrified, scaring them even more can push them into denial. For example, women sometimes avoid breast self-examination, not because breast cancer scares them too little but because it scares them too much. In places where bird flu is endemic, magical thinking and denial are already a problem. "I am not afraid of bird flu ... I would have been the first who died when the disease struck last year. But look, I am still healthy," a Thai chicken butcher from Roi Et province told the Bangkok Post in February 2005. The Post noted that the butcher wore "too protective gear except nylon gloves." For most of the world right now, though, apathy is the problem—not denial. We can't scare people enough about H5N1. WHO has been trying for over a year, with ever-more-dramatic appeals to the media, the public, and Member States. Until a pandemic begins, there's little chance we'll scare people too much.

Research evidence won't protect you from criticism, of course. Fear appeals often provoke angry pushback from people questioning your motives or your expertise, accusing you of "crying wolf" or provoking "warning fatigue" or panicking the public. That happened after WHO Western Pacific Regional Director Shigeru Omi said, in a worst case, a bird flu pandemic could kill up to 100 million people (a well-justified estimate). Of course, there is a genuine downside to issuing warnings that turn out to be unnecessary. Although panic is unlikely and warning fatigue is temporary, there is some credibility loss, especially if the warnings were exaggerated or overconfident. But consider the alternative. Which is worse, being criticized for “unduly” frightening people or being criticized for failing to warn people?

3. Acknowledge uncertainty

When the first Thai bird flu outbreaks subsided in 2004, a senior public official said: "The first wave of bird flu outbreaks has passed ... but we don’t know when the second wave will come, and we don’t trust the situation... So the Public Health Ministry is being as careful as possible.” This exemplifies two risk communication principles: acknowledgment and honesty.

Overconfident overstatement is terrible risk communication. Paradoxically, people usually find it alarming. When the first Thai bird flu outbreaks subsided in 2004, a senior public official said: "The first wave of bird flu outbreaks has passed ... but we don’t know when the second wave will come, and we don’t trust the situation... So the Public Health Ministry is being as careful as possible.” This exemplifies two risk communication principles: acknowledgment and honesty.

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Voluntariness

A voluntary risk is much more acceptable to people than a coerced risk, because it generates no outrage. Consider the difference between getting pushed down a mountain on slippery sticks and deciding to go skiing.

Responsiveness

Does the corporation or government agency that imposes the risk or tells you about it do a good job? Do they seem to care? Do they take the time to answer your questions? Do they treat you with respect and honesty? Risk communication experts know that in a worst case, a bird flu pandemic could kill up to 100 million people (a well-justified estimate). Of course, there is a genuine downside to issuing warnings that turn out to be unnecessary. Although panic is unlikely and warning fatigue is temporary, there is some credibility loss, especially if the warnings were exaggerated or overconfident. But consider the alternative. Which is worse, being criticized for “unduly” frightening people or being criticized for failing to warn people?

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4. Share dilemmas

Sharing dilemmas is a lot like acknowledging uncertainty. Not only are we unsure about what will happen, we’re also unsure about what to do. Everyone finds this hard to accept. But dilemma-sharing has huge advantages:

- It humanizes the organization by letting the pain of difficult decisions show.
- It gives people a chance to make suggestions and be part of the process.
- It moderates the conflict between opposing recommendations.
- It reduces the outrage if you turn out to be wrong. Officials who make difficult, debatable decisions look easy and obvious are colluding with people’s passive desire to be taken care of by an all-knowing government. They then feel entitled to blame the government if things go badly. Dilemma-sharing does raise some anxiety at first, but sharing does raise some anxiety at first, but sharing does raise some anxiety at first, but sharing 

5. Give people things to do

One reason sometimes given for not alarming the public is that there’s nothing for people to do anyway. A Jan. 18, 2005, Wall Street Journal article quoted Canadian infectious disease expert Richard Schabas as saying: “Scaring people about avian influenza accomplishes nothing, because we’re not asking people to do anything about it.” But the error isn’t in scaring people. The error is failing to realize—and say—how much they can do to prepare.

Helping resolve government policy dilemmas is just the beginning. Thailand, for example, has trained almost a million volunteers to reach out to every village in the country to inform people about the risks and signs of bird flu and to have them try to protect themselves and their flocks. Many companies, hospitals, schools, and local governments around the world are starting to plan for “business continuity” in the event of a pandemic. Even cognitive and emotional rehearsal—learning about H5N1 and thinking about what a pandemic might be like and how you’d cope—is a kind of preparedness and a kind of involvement. The WHO outbreak guidelines say: “It is possible, representatives of the public should be brought into the decision-making process. Risk communication messages should include information about what the public can do to make themselves safer.”

Here are some other recommendations in brief:

6. Be willing to speculate—responsibly

Warnings are intrinsically speculative. Like hurricane forecasts, we have to offer both worst-case scenarios and likelier scenarios, always acknowledging that we may turn out to be wrong.

7. Don’t get caught in the numbers game

Battles over how many people an H5N1 pandemic might kill are pointless. What matters is that flu pandemics are horrific, and for the first time ever we can see one coming and start getting ready.

8. Stress magnitude more than probability

The rationale for H5N1 pandemic preparedness isn’t that we’re sure it’s coming, but how bad it could get. Overconfidence about risk probability is a mistake. Dramatic warnings about risk magnitudes are more justified. (There are times when it’s best to stress probability. But the unexpected can happen.)

9. Guide the adjustment reaction

Once people get past their apathy and start taking a new risk seriously, the normal response is an “adjustment reaction”—a temporary fearfulness, sometimes accompanied by misplaced or excessive caution. This is the teachable moment. Don’t ignore it or ridicule it. Guide it. Then we settle into the “new normal.”

Governments face a host of policy dilemmas both before and during an outbreak. Good risk communication means sharing those dilemmas and letting the public help you decide.

An interactive, self-taught course on risk communication is available at the website of the Pan American Center for Sanitary Engineering and Environmental Sciences (CEPS), one of 10 scientific and technical centers of the Pan American Health Organization (PAHO). The course covers the theory and methodology of risk communication and discusses strategies and effective interventions for target populations. It was developed by PAHO and the U.S. Agency for Toxic Substances and Disease Registry (ATSDR) with support from the U.S. Centers for Disease Control and Prevention (CDC). Students who finish the course successfully receive a certificate of completion. The course is available in English, Spanish, and Portuguese at www.ceps.ops-oms.org/tutorial.