

Macquarie University ResearchOnline

This is the author version of an article published as:

Rogers, W., Street, J. M., Braunack-Mayer, A. J. and Hiller, J. E. (2009)
Pandemic influenza communications : views from a deliberative forum, *Health
Expectations*, Vol. 12, No. 3, p.331-342

Access to the published version: <http://dx.doi.org/10.1111/j.1369-7625.2009.00562.x>

Copyright: Blackwell Publishing



Pandemic influenza communication: views from a deliberative forum

Journal:	<i>Health Expectations</i>
Manuscript ID:	HEX-2009-0310.R2
Manuscript Type:	Original Research Paper
Keywords:	deliberative forum, pandemic influenza, communication, health policy, pandemic planning



Pandemic influenza communication: views from a deliberative forum

Introduction

Governments around the world rely upon pandemic influenza (PI) planning to protect their countries against the potentially devastating impact of a pandemic. Communication has been recognised as a critical part of PI planning. Authorities including the World Health Organisation (WHO) have issued guidelines, claiming that communication expertise is as important as epidemiological and laboratory expertise for control of outbreaks.¹ Specific PI-related communication strategies in national PI plans² are complemented by a burgeoning literature on risk communication,³⁻⁵ together with analyses of communication in previous crises such as the 2003 outbreaks of Severe Acute Respiratory Syndrome (SARS)^{6, 7} and Hurricane Katrina.^{8, 9} There is growing consensus about principles of risk and crisis communication, embracing concepts such as trustworthiness, transparency, responsiveness, respect, candour, and practicality.^{1, 10, 11}

This literature provides a foundation for governments developing their own PI communication strategies, such as the *Communication Strategy Overview*¹² published as an annex to the Australian government's *Australian Health Management Plan for Pandemic Influenza*.¹³ There is, however, an additional source of expertise that can contribute to pandemic communication planning: the public. Their views can be accessed in a variety of ways, each with strengths and weaknesses.¹⁴ Deliberative forums are one method of tapping into the community to explore approaches to an

1
2
3 issue or problem.¹⁵ Deliberative methods provide opportunities for citizens
4
5 to articulate and share values.^{15, 16} Forums are similar to citizens' juries in
6
7 that a population sample deliberates about an issue after receiving expert
8
9 information.¹⁷ Like juries, forums share the theoretical assumption that,
10
11 given enough information about a topic, a small group can provide views
12
13 that are informed and reflective of community values.
14
15
16
17
18
19

20 This paper reports results from the "FluViews" project which used
21
22 deliberative methods to obtain community views about issues related to PI
23
24 planning. One two-day forum held in 2008 elicited views on communication
25
26 and quarantine/social distancing measures in a pandemic; the results
27
28 relating to communication are reported here. In choosing the format of the
29
30 forum, we recognised, given the complexity of the issues presented by
31
32 pandemic management, that the forum should explore "the social
33
34 construction that influences people's decision-making"¹⁵ and must allow for
35
36 divergent views. "FluViews" was overseen by a steering group of policy
37
38 makers and academic experts working in PI planning and infectious diseases.
39
40
41
42
43
44
45

46 **Methods**

47
48 A market research company from the Adelaide metropolitan area recruited
49
50 forum members to fulfil these criteria:
51

- 52 ○ Sex: 50% female
- 53
- 54 ○ Age: one-third each from age ranges 18-34; 35-54 and 55+
- 55
- 56 ○ Employment: 50% in paid work
- 57
- 58 ○ Household income: 50% below \$800/wk
- 59
- 60

1
2
3
4
5
6 Potential members were randomly selected from a database weighted by
7
8 age, sex and geographic location to reflect accurately the South Australian
9
10 population.¹⁸ Recruiting continued until all places were filled. Forum
11
12 members received an honorarium of AUD\$300 and travel expenses.
13
14

15
16
17 Available evidence about PI and communication, collated using systematic
18
19 literature reviews, was summarised for members in two-page modules
20
21 written in simple language. The topics were: seasonal influenza, PI, and
22
23 future pandemic risks; logistical, political and policy issues related to
24
25 communication about health and emergencies; effectiveness of strategies
26
27 for pandemic communication; and related ethical issues. Strenuous efforts
28
29 were made to ensure that the reviews were systematic and balanced. Where
30
31 evidence was contentious the forum was informed about the nature of the
32
33 controversy, the range of views in the peer reviewed literature and the
34
35 strength of available evidence. The modules were evaluated and ultimately
36
37 approved by all members of the steering group.
38
39
40
41
42
43
44
45

46 The forum met in a hotel meeting room over two days, with one day
47
48 devoted to the question: What is an acceptable framework for
49
50 communication in an influenza pandemic? Members sat around a single
51
52 table, where they were joined by experts in infectious disease, ethics, and
53
54 public policy. There were fewer experts and observers than forum
55
56 members. Members were asked to act as 'citizens' and 'community
57
58 representatives' rather than as 'individuals' in the deliberation and
59
60

1
2
3 decision-making process. A trained independent facilitator called experts
4
5 and refocussed discussion as necessary.
6
7
8
9

10 The forum reflected on the questions using progressive scenarios that
11 moved through a hypothetical PI outbreak in Australia (See Box 1). Prior to
12 discussion of each scenario, there were short accessible and interactive
13 presentations by the experts with ongoing opportunities for members to ask
14 questions. At each stage members deliberated on what, how and when the
15 community should be told about pandemic influenza and by whom. The
16 facilitator supported individual reflection, discussion in small groups,
17 brainstorming and whole group discussion. Participants were encouraged to
18 state and discuss their views, seek further information from experts, and
19 then reach a broad consensus in their responses. Care was taken to
20 demonstrate respect for the members' views.
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38

39 **Insert here: Box 1 Hypothetical scenarios used by Forum**
40
41
42

43 Material was recorded on an electronic whiteboard to facilitate
44 brainstorming and reaching consensus. A professional reporter with back-up
45 voice recording transcribed forum deliberations verbatim. No formal votes
46 were taken on specific recommendations.
47
48
49
50
51
52
53

54 The data consisted of copies of white board screens containing forum
55 recommendations, anonymised transcripts and contemporaneous notes. The
56 transcripts were checked by one author (WR) to add depth to the
57
58
59
60

1
2
3 recommendations with illustrative comments and these were cross-checked
4
5 against an independent summary of the data prepared by JS. Current
6
7 Australian PI communication strategies were evaluated against the forum's
8
9 responses.
10
11

12
13
14
15 The Human Research Ethics Committee of the University of Adelaide
16
17 approved this study.
18
19

20 21 22 23 24 25 Findings

26
27
28
29 Participant characteristics are in Table 1. Table 2 lists the summary
30
31 recommendations that were developed by the group as agreed and
32
33 recorded on the whiteboard. Table 3 contains a more detailed outline of
34
35 the results presented by question (what, how, who, when) with each
36
37 section covering the stages in the scenarios (Box 1). We have chosen to
38
39 include direct quotes from participants in order to illustrate the findings.
40
41
42
43
44
45

46
47 **Insert here Table 1: FORUM CHARACTERISTICS**
48
49

50
51 **Insert here Table 2: SUMMARY RECOMMENDATIONS FROM DELIBERATIVE**
52
53 **FORUM ON COMMUNICATION IN A PANDEMIC**
54
55

56
57
58 **Insert here Table 3: FINDINGS FROM THE DELIBERATIVE FORUM ON**
59
60 **COMMUNICATION IN A PANDEMIC.**

1
2
3
4
5
6
7
8 **1. What information should the public receive about PI?**
9

10 **Scenario 1: Before a pandemic (see Box 1)**
11

12 Participants were surprised at their lack of knowledge or awareness of
13 H5N1 and the potential for PI. They recommended three topics of public
14 information for this phase: the current situation and its implications;
15 information about PI; and information about seasonal influenza:
16
17
18
19
20
21

22
23
24
25 *...not many people are aware of the situation ... and, for example, I*
26 *could ask my three children a bit about the bird flu and how aware*
27 *they are of that in other countries, and I'm sure they couldn't give*
28 *me much of an answer. (Ross, p5: 22-27)*
29
30
31
32
33

34
35
36 PI was seen to be a potentially confusing and frightening topic that could
37 be managed by provision of detailed information:
38
39
40
41

42
43
44 *I think people need to know the truth. Not watered down or*
45 *sensationalised, just the truth. (Nanette p 7-8)*
46
47
48
49

50
51 The forum recommended comprehensive information:
52
53
54

55
56 *First, you need to explain what a pandemic is and what is the flu*
57 *and what is the current disease situation ... Then, explain to*
58 *people how they can prepare themselves by vaccinations and*
59
60

1
2
3 *general hygiene, and explain who is more at risk, like the young and*
4
5 *the elderly, and maybe what is the government's plan to stop the*
6
7 *pandemic killing everyone. (Tayla p 6: 26-33)*
8
9

10
11
12
13 Providing information about seasonal influenza was seen as an opportunity
14
15 to link this to PI, with a focus on the importance of personal hygiene:
16
17

18
19
20 *It's about getting people into the habit of doing it so when the big*
21
22 *scary stuff comes they are already in the habit. (Karen p 15: 28-30)*
23
24

25
26
27 The discussion revealed confusion over vaccination for seasonal influenza,
28
29 and the need for more public information about potential benefits of higher
30
31 vaccination rates for the community and employers:
32
33

34
35
36 *... how aware are people about flu shots?People are not aware of*
37
38 *even the current situation with flu shots. (Ross p 14: 5-15)*
39
40

41
42
43 Members distinguished between providing information to raise awareness of
44
45 the potential for PI, and providing detailed information. Late in the
46
47 discussion of Scenario 1, the view was that:
48
49

50
51
52
53 *Even if .. people don't have the specific information now, just*
54
55 *knowing where to get the information from. You don't have to stand*
56
57 *there and talk for 15 minutes on the television saying "This is it", but*
58
59 *if people ... know where they can access the information from and*
60

1
2
3 *really quickly, I think that that would make a huge amount of*
4
5 *difference as well. (Jane p 26: 30-36)*
6
7
8
9

10 **Scenario 2: During the pandemic - containment stage (see Box 1)**
11

12 In this scenario, the forum emphasised the need to inform the public that a
13 pandemic may be imminent, provide practical information, and release
14 information about the index case. Practical information should include
15 telling people that the threat applied to them and ways to protect
16 themselves:
17
18
19
20
21
22
23
24
25
26

27 *I would probably want to know how to look after myself and my*
28 *loved ones. (Raelene p 44: 3-36)*
29
30
31
32
33

34 Participants unanimously recommended that information about a first or
35 index case should be released by someone in authority. There was some
36 discussion about privacy, with the consensus being to identify the location
37 by suburb:
38
39
40
41
42
43
44
45

46 *In this case it's a highly contagious virus and it kills people. Privacy*
47 *aside, people need to know. (Nanette p 49: 27-28)*
48
49
50
51
52

53 The forum justified this recommendation due to the severity of the threat,
54 the need for accurate and credible information, and the potential for rapid
55 spread:
56
57
58
59
60

1
2
3 *It's like being forewarned about a tornado coming, you can take*
4 *preventative measures, you can buy up 20 litres of water or three*
5 *weeks' worth of food. (Neil p 47: 8-10)*
6
7
8
9

10
11
12
13 Participants discussed the role of the media and a possible media ban to
14 protect privacy of those affected by PI, but finally agreed that a ban would
15 be counter productive as media cooperation would be necessary for
16 transmitting other information about the pandemic.
17
18
19
20
21

22
23
24
25 **Scenario 3: During the pandemic - maintenance stage (see Box 1)**
26

27 The emphasis upon practical information continued in scenario 3, together
28 with an identified need for general information about both the progress of
29 the pandemic and the functioning of society. Progress updates should
30 include bad news as well as good:
31
32
33
34
35
36
37
38

39 *I want to know as bad as it sounds, death counts, all the bad stuff.*

40
41 *Just updates but also hope stories of people who get better. (Tayla*
42 *p 62: 28-30)*
43
44
45
46
47
48

49 Practical issues included health care arrangements and advice on self-care
50 together with information about essential goods and services, and what to
51 do if unable to work due to illness:
52
53
54
55
56
57

58 *What other services are affected in your local area especially, what*
59 *the case is as far as hospitals, doctors' surgeries... (Ross p 63: 34-36)*
60

1
2
3
4
5
6 *If I am not working, how do my bills get paid? (Raelene p 64: 14)*
7
8
9

10 The forum indicated the importance of accurate information during this
11 potentially chaotic pandemic phase:
12
13
14

15
16
17 *I want to make sure the information I am getting is correct coming*
18 *from heaps of different sources. (Matt p 75: 23-24)*
19
20
21
22
23
24
25

26 **2. How should this information be communicated?**

27 **Scenario 1: Before a pandemic (see Box 1)**

28
29 The forum raised obvious but important points about communication
30 methods, such as the need for clear and simple language, and developing
31 awareness and understanding over time, so that if and when a pandemic
32 occurs, people will be prepared.
33
34
35
36
37
38
39
40
41
42

43 Television was recommended for a number of roles including: updates on
44 PI; in-depth interviews with experts; advertisements about further sources
45 of information; and advertisements about seasonal influenza to foster
46 community attitudes about preventive measures:
47
48
49
50
51
52
53

54
55 *If there was an ad on TV saying "Thanks for getting your flu shot",*
56 *that would encourage me in the next year. (Karen p 13: 31-2)*
57
58
59
60

1
2
3 Other recommendations included posters in community settings (eg
4 libraries), council newsletters, government websites and distribution of
5 household leaflets. One novel idea was for reputable non-government
6 organisations, such as the Red Cross, to provide face to face explanations:
7
8
9
10
11

12
13
14
15 *.....a large organisation like Red Cross ... go and door-knock and*
16 *explain to the people in that street, were they aware of what this*
17 *was and it was a possible thing that was coming to Australia, but*
18 *not to alarm them but do it through a large organisation, a large*
19 *respected company like Red Cross. (Ross p 5: 36-42)*
20
21
22
23
24
25
26
27
28
29

30 Education of school children was seen as a way of raising awareness and
31 developing a cohort of informed and prepared future citizens:
32
33
34
35
36
37
38
39
40
41
42

43
44 *... it's about making sure the education is continuous, so they bring*
45 *it up into their adulthood. (Jane p 19: 4-6)*
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

61
62 The forum recommended communication with specific groups, including
63 young people (using internet sites such as Facebook, Myspace or YouTube),
64 rural and remote communities, people with physical or mental disabilities,
65 and working people. Regional television was viewed as an important
66 resource for reaching remote communities, as were existing services such
67 as outback visiting ministers.
68
69
70

1
2
3 Alongside these recommendations about methods, participants argued that
4
5 information should accumulate gradually, without repetition, to develop
6
7 community expertise.
8
9

10
11
12 **Scenario 2: During the pandemic - containment stage (see Box 1)**

13
14 News about an Australian case could be broadcast as part of any existing
15
16 regular PI updates, because a sensitised population would understand the
17
18 implications. In the absence of adequate background information,
19
20 participants thought that only significant media attention would alert
21
22 people to the potential threat:
23
24
25
26
27
28

29 *I don't think I would be too concerned until it is on every channel of*
30
31 *TV ... (Tayla p 44: 21)*
32
33
34
35

36 They recommended that information be provided via government
37
38 announcements in the media and on government websites, plus a well
39
40 publicized dedicated hotline.
41
42
43
44
45
46
47
48

49 **Scenario 3: During the pandemic - maintenance stage (see Box 1)**

50
51 Forum members agreed the need for regular updates on pandemic progress
52
53 and for a dedicated source of information available at all times. Members
54
55 were divided over whether this should be television, internet or both:
56
57
58
59
60

1
2
3 *It would be good if you could have an extra half an hour added onto*
4 *the news ... maybe two or three times a day for the different people*
5 *who watch the news. (Karen p 64: 31-34)*
6
7

8
9
10
11
12 *[G]overnment help web sites that everybody could dial into and get*
13 *current updates. The updates would be done every couple of hours.*
14
15 *(Neil p 68: 45-47)*
16
17

18
19
20
21
22 Radio was also identified as a valuable communication medium in an
23 emergency:
24
25

26
27
28
29 *The handy thing with radio is you can have batteries, whereas*
30 *television, if the power goes out... (Bill p 68: 31-32)*
31
32
33

3. Who should communicate?

Scenario 1: Before a pandemic (see Box 1)

34
35
36
37
38
39
40
41
42 The forum identified the need for media spokespeople who would be
43
44 trusted by the Australian community: experts rather than politicians; and
45
46 the involvement of internationally recognised authorities such as the World
47
48 Health Organisation:
49
50
51

52
53
54
55
56 *You would listen to the big guns, wouldn't you? You would take it*
57 *seriously if they [WHO] are getting involved. (Karen p 23: 14-15)*
58
59
60

1
2
3 General practitioners were identified as important sources of information:
4
5
6
7

8 *... when you go to the GP, the GP is able to give far more*
9
10 *information to the individuals in educating them and pamphlets and*
11
12 *stuff like that. (Jane p 3: 43-45)*
13
14
15
16

17
18 As discussed above, non-government organisations were considered to be
19
20 trustworthy for unsolicited information.
21
22
23

24
25 There was consensus that communication should not be used for political
26
27 point scoring, and that it was a government responsibility to inform the
28
29 public and provide information through a range of channels.
30
31
32
33

34 **Scenario 2: During the pandemic - containment stage (see Box 1)**
35

36
37 As with scenario 1, the forum recommended an official spokesperson or
38
39 expert with authority as the appropriate person to make announcements. It
40
41 was suggested that information from affected individuals would also be
42
43 effective:
44
45
46
47
48

49 *Maybe someone who got better... Or maybe someone who got sick to*
50
51 *scare people. (Tayla p 54: 39-43)*
52
53
54
55
56
57

58 **Scenario 3: During the pandemic - maintenance stage (see Box 1)**
59

60 There were few additional recommendations, other than that:

1
2
3
4
5
6 *At that stage I wouldn't care who was presenting it. If it's someone*
7
8 *credible, okay, who is healthy. (Tayla p 64: 42-43)*
9

10 11 12 13 14 15 **4. When should communication occur?** 16

17 **Scenario 1: Before a pandemic (see Box 1)** 18

19
20 The final question related to the timing of public communication. The
21
22 forum's view was that the community needed immediate information about
23
24 the threat, and that, in so far as they were representative of South
25
26 Australians, the community was currently under-informed. There was a
27
28 feeling that if PI breaks out, it would be too late to provide necessary
29
30 background information, or for people to have developed protective
31
32 personal hygiene habits:
33
34
35
36
37
38

39 *Are we going to wait? Is it only important when it's here? ... What I*
40
41 *am saying is it needs to be important now, because when it's here*
42
43 *there is no time to plan and do all that... (Karen p 24: 38-42)*
44
45
46
47
48

49 As described above, the forum recommended a sophisticated approach to
50
51 the question of when information should be communicated. Prior to an
52
53 outbreak the emphasis should be upon raising awareness of the potential
54
55 problem and sources of further information. Detailed information would
56
57 only be necessary once a pandemic was imminent.
58
59
60

1
2
3 **Scenario 2: During the pandemic - containment stage (see Box 1)**
4

5
6 The members recommended that Australians be informed as soon as there
7
8 were confirmed cases in Australia, due to the serious nature of PI and the
9
10 potential for rapid spread.
11

12
13
14
15 **Scenario 3: During the pandemic - maintenance stage (see Box 1)**
16

17
18 At this stage, participants felt that information should be available
19
20 continuously and updated frequently.
21

22
23
24 Throughout the day, members commented on the fact that, until their
25
26 involvement in this project, they had known little about either the threat
27
28 of PI or about existing government planning. This was seen as problematic:
29
30

31
32
33
34 *What is the point of having them [government preparations] if*
35
36 *people don't know about them, some of those things? ... I didn't*
37
38 *know any of that. It's nice to know they have done stuff. (Karen 32:*
39
40 *33-43)*
41
42
43
44
45
46
47
48
49

50
51 **Discussion**

52
53 The forum's recommendations about the content of communication during
54
55 a pandemic are largely consistent with the strategies described in the
56
57 Australian government *Communication Strategy Overview* (hereafter the
58
59 *Strategy*).¹² In particular the key objectives (see Box 2) are similar to forum
60
recommendations, focusing initially on building awareness followed by

1
2
3 practical information about minimising personal and community risks, and
4
5 what to do if affected. These objectives are supported by the literature on
6
7 information strategies to effect behaviour change^{4 11} and reduce public
8
9 anxiety and criticism.¹⁰
10
11

12
13
14
15 **Insert here Box 2: Key objective for Stages 1-3 of the Australian PI**

16 17 18 **Communication Strategy**

19
20
21
22 There are, however, some notable differences. First, the forum wanted full
23
24 and frank information about the potential risk and international
25
26 developments including numbers of cases and fatalities. It is not clear
27
28 whether the Stage 1 key message “What is the current disease situation”
29
30 anticipates this level of detail. Given the level of prior knowledge amongst
31
32 participants, either such detail is not planned, or the strategy to date has
33
34 been unsuccessful.¹⁹ There is evidence that people do want the truth
35
36 during a crisis, even if this is bleak.¹⁰ Providing information about the
37
38 potentially deadly nature of an infection increases concern in the
39
40 population which is associated with taking precautions to protect against
41
42 infection.²⁰
43
44
45
46
47
48
49
50

51
52 Second, although forum members understood that predictions about PI
53
54 were uncertain, this did not lead to loss of confidence in the experts or the
55
56 information they imparted. This is consistent with findings that
57
58 acknowledging uncertainty can increase public confidence.²¹ Information
59
60 about communicating uncertainty is currently absent from the *Strategy*.

1
2
3
4
5
6 Third, the forum recommended releasing geographically localising
7
8 information about initial cases. The *Strategy* does not indicate how
9
10 information about individual cases will be handled. In general, health
11
12 departments maintain confidentiality, releasing information only if this will
13
14 prevent further cases. Despite recognising this, forum members argued that
15
16 the magnitude and severity of the threat justified release of potentially
17
18 identifying information.
19
20
21
22
23
24

25 Discussions about breaking the news of Australian cases of PI exposed a
26
27 range of perceptions about distance. A threat in a city 1700 km distant was
28
29 seen by some as quite proximate but by others as distant and hence less
30
31 significant, indicating that awareness of varying perceptions about the
32
33 significance of distance is important in communication about PI.
34
35
36
37
38

39 For communication methods, the *Strategy* relies upon the Australian
40
41 Department of Health and Ageing (DoHA) website, its toll-free telephone
42
43 line, and media activities including interviews, special articles on
44
45 prevention, and public announcements. To date, these methods of
46
47 communication appear unsuccessful in developing a base level of
48
49 awareness, as per our participants' comments. As of September 2008, the
50
51 pandemic influenza toll free number is difficult to locate on the DoHA
52
53 website¹. Toll free numbers were heavily utilised during SARS,²² indicating
54
55 their potential contribution in a pandemic.
56
57
58
59
60

¹ It appears on the avian influenza, rather than the pandemic influenza website.

1
2
3
4
5
6 The forum's recommendations for education through schools are important
7
8 for developing community wide expertise about and good habits in
9
10 infection control and personal hygiene. The *Strategy* does not take a whole
11
12 of community approach that includes school activities.² The
13
14 recommendation to build awareness of seasonal influenza through feedback
15
16 and 'thank you' messages deserves consideration as a way of supporting
17
18 related messages in the *Strategy*. Using volunteers from organisations such
19
20 as Red Cross to provide door to door information highlights the potential
21
22 contribution of the volunteer sector in a pandemic, a group not mentioned
23
24 in the *Strategy*. The forum was in disagreement about the value of
25
26 distributing household leaflets, but interestingly, despite thinking this
27
28 ineffective, most members remembered recent government information
29
30 leaflets delivered to their homes.
31
32
33
34
35
36
37
38

39 The forum recommended increasing use of television and websites,
40
41 including those targeting youth and rural and remote groups as the
42
43 pandemic developed. This is consistent with plans for a national
44
45 information campaign, with media activities intensifying as infection
46
47 spreads. Research following the SARS outbreak found that television was
48
49 the primary source of information in China²³; this is similar to US data
50
51 unrelated to SARS.⁷ The internet emerged as a new method of emergency
52
53 health communication during SARS.^{6, 24} Information found on-line can
54
55 change health-related behaviour.²⁵ Australians increasingly use the internet
56
57
58
59
60

² We note that the South Australian Department of Health has instigated a hand hygiene campaign ("Wash, wipe, cover") for schools as part of its PI planning.

1
2
3 for news²⁶ indicating that it may be an effective medium for PI
4
5 communication.
6
7
8
9

10 The literature is uniform about the need for consistent messages as a key
11 feature of effective communication.²⁷ Inconsistency can affect compliance
12 with public health directives²⁸ and lead to public distrust.²⁹ The *Strategy*
13 identifies Australia's Chief Medical Officer as the principal spokesperson,
14 with additional contributions from Ministers including the Prime Minister,
15 an approach that may ensure consistency. Unlike the *Strategy* and some
16 commentators,³⁰ the forum did not recommend a single spokesperson, but
17 rather a range of people including experts and personalities, to make the
18 message 'real'. Members argued that politicians may not be trusted, but
19 that Ministerial level spokespeople would add *gravitas* in tandem with more
20 trustworthy experts. Experience from SARS demonstrates the success of
21 multiple voices^{31, 32} particularly in expanding the audience, as long as
22 messages remain uniform.
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40

41
42
43 Finally, there is the issue of when to communicate. Our forum
44 recommended immediate activities to educate and build awareness and
45 swift action if and when Australia has its first cases of PI. This is consistent
46 with other pandemic experiences including the 1918 influenza in which
47 early implementation of multiple interventions was associated with
48 reduced disease transmission.³³ The WHO notes that it is impossible to keep
49 outbreaks hidden; accordingly, it recommends early official announcement
50 to minimise rumours and misinformation.¹ Some commentators believe that
51
52
53
54
55
56
57
58
59
60

1
2
3 too much information can lead to people switching off or getting ‘pandemic
4 fatigue’.³ This danger was recognised by the forum who argued for a
5
6 campaign that built up community expertise without losing the audience.
7
8
9
10 The *Strategy* does not indicate how rapidly information would be made
11
12 public during the various communication stages, but there is no suggestion
13
14 that information would be withheld.
15
16
17

18 19 20 *Limitations and evaluation of the study*

21
22 Deliberative methods aim to access individuals’ expertise as community
23
24 members to provide views and recommendations about policy. Our forum
25
26 was composed of randomly selected participants, who were provided with
27
28 information that they were encouraged to discuss before reaching their
29
30 recommendations. In these aspects it resembled a citizens’ jury. There
31
32 were however, differences. Our forum was asked for their views about
33
34 communication needs, rather than asked to choose or prioritise amongst
35
36 options as commonly occurs with juries. In addition, the forum did not
37
38 deliberate in private to reach ordered or unanimous recommendations. This
39
40 decision was partly pragmatic as PI communication is a broad topic for
41
42 which there is little hard evidence about effective strategies. It was also
43
44 influenced by our desire to seek the maximum information possible given
45
46 the relative expense of staging a forum. At times, it was difficult for the
47
48 forum to remain focussed on the questions, leading to recommendations
49
50 less clear cut than, for example, ordering a set of health care priorities.
51
52
53
54
55
56
57
58
59
60 Members of the forum were very curious about PI leading to an occasional
blurring of the distinction between their requests for information (as forum

1
2
3 members) and their views about information recommended for the public.
4
5
6 A more formal process would have avoided this problem; however this may
7
8 have been at risk of losing some of the range of views expressed.
9
10

11
12
13 Despite these shortcomings, we believe that the deliberative forum is a
14
15 valuable method for eliciting informed community views and values to
16
17 inform PI planning and policy. In contrast to focus groups, which also seek a
18
19 wide range of views, the length and format of the forum meant that
20
21 participants based their deliberations upon a large amount of specialised
22
23 information. Our forum met key principles proposed for public participation
24
25 processes¹⁴: it was a demographically representative sample, provided with
26
27 information that was accessible and comprehensive, conducted in a
28
29 respectful way with clear procedural rules. The results of the forums have
30
31 been provided on request to the Pandemic Influenza Sub-committee of the
32
33 Coalition of Australian Governments (COAG) and have been presented at
34
35 international conferences and meetings.
36
37
38
39
40
41
42
43
44
45

46 Conclusion

47
48 Effective communication is critical for the successful implementation of PI
49
50 plans. As each public health emergency and each pandemic occurs in its
51
52 own unique context, it is difficult to move beyond theoretical principles of
53
54 communication. Planners and policy makers therefore face challenges in
55
56 developing evidence-based communication strategies. A deliberative forum
57
58 provides one avenue for seeking informed community views on PI
59
60

1
2
3 communication planning. The recommendations of the forum are consistent
4
5 with the literature on pandemic communication strategies and, to a large
6
7 extent, with the current Australian *Strategy*. This finding confers some
8
9 confidence in the *Strategy* whilst also providing valuable feedback together
10
11 with suggestions for improving communication through the use of multiple
12
13 spokespersons and additional communication modes.
14
15
16
17
18
19

20 Using a forum to deliberate on a broad topic such as PI communication is
21
22 innovative. We have demonstrated that this method can be used to elicit
23
24 informed recommendations that are relevant for policy and planning. Using
25
26 a forum rather than other methods such as focus groups ensured that
27
28 participant deliberations were based upon the best available evidence and
29
30 local expertise, thereby ensuring relevant recommendations.
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49

References

- 50 1 WHO. Outbreak communication guidelines. Geneva: World Health
51 Organisation; 2005.
- 52
53 2 Lee C, Rogers WA, Braunack-Mayer A. Social justice and pandemic
54 influenza planning: The role of communication strategies Public
55 Health Ethics 2008 1:223-34.
56
57
58
59
60

- 1
2
3 3 Reynolds B, Seeger MW. Crisis and emergency risk communication as
4 an integrative model. *Journal of Health Communication*.
5 2005;10(1):43-55. DOI:10.1080/10810730590904571
- 6
7
8
9 4 Takeuchi M. Avian influenza risk communication, Thailand [letter]
10 *Emerging Infectious Diseases*. 2006;12(7):1172. Available from:
11 <http://www.cdc.gov/ncidod/EID/vol12no07/06-0277.htm>, accessed
12 on 19 Dec 2008
- 13
14
15
16 5 Underwood C. Avian Influenza Communication Campaign, Azerbaijan.
17 The Communication Initiative Network, [Online] 2008 Available from:
18 <http://www.comminit.com/en/node/266564/36>, accessed on 19 Dec
19 2008
- 20
21
22
23 6 Arguin PM, Navin AW, Steele SF, Weld LH, Kozarsky PE. Health
24 communication during SARS. *Emerging Infectious Diseases*. 2004
25 Feb;10(2):377-80.
- 26
27
28
29 7 Brug J, Aro AR, Oenema A, de Zwart O, Richardus JH, Bishop GD.
30 SARS risk perception, knowledge, precautions, and information
31 sources, the Netherlands. *Emerging Infectious Diseases*. 2004
32 Aug;10(8):1486-9.
- 33
34
35
36 8 Garnett JL, Kouzmin A. Communicating throughout Katrina:
37 Competing and complementary conceptual lenses on crisis
38 communication. *Public Administration Review*. 2007;67(1):171-88.
39 DOI 10.1111/j.1540-6210.2007.00826.x
- 40
41
42
43 9 Guion DT, Scammon DL, Borders AL. Weathering the storm: A social
44 marketing perspective on disaster preparedness and response with
45 lessons from Hurricane Katrina. *Journal of Public Policy and*
46 *Marketing*. 2007;25(1):20-32.
- 47
48
49
50 10 Fischhoff B. Scientifically sound pandemic risk communication:
51 Testimony prepared for House Science Committee briefing. 2005; (14
52 Dec) Available from:
53 <http://www.apa.org/ppo/issues/testimonyfischhoff.pdf>, accessed
54 on 19 December 2008
- 55
56
57
58
59 11 Sandman P. Four kinds of risk communication. The Peter Sandman
60 Risk Communication Website [Online] 2003 11 April Available from:

- 1
2
3 <http://www.psandman.com/col/4kind-1.htm>, accessed on 19 Dec
4
5 2008
6
7 12 Department of Health and Ageing. Communications Strategy
8
9 Overview: Annex to the Australian Health Management Plan for
10
11 Pandemic Influenza. Canberra: Australian Government; 2006.
12
13 13 Department of Health and Ageing. Australian Health Management
14
15 Plan for Pandemic Influenza. Canberra: Australian Government; 2006.
16
17 14 Abelson J, Forest PG, Eyles J, Smith P, Martin E, Gauvin FP.
18
19 Deliberations about deliberative methods: issues in the design and
20
21 evaluation of public participation processes. *Social Science and*
22
23 *Medicine*. 2003 Jul;57(2):239-51.
24
25 15 Bone Z, Crockett J, Hodge S. Deliberation forums: a pathway for
26
27 public participation. Practice change for sustainable communities,
28
29 APEN International Conference. Beechworth, Victoria, Australia:
30
31 Australian Pacific Extension Network 2006
32
33 16 Murphy NJ. Citizen deliberation in setting health-care priorities.
34
35 *Health Expectations*. 2005 Jun;8(2):172-81.
36
37 17 Lenaghan J. Involving the public in rationing decisions. The
38
39 experience of citizens' juries. *Health Policy*. 1999;49:45-61.
40
41 18 Harrison Health Research and the South Australian Department of
42
43 Health. The Health Omnibus Survey. 2006. Available from:
44
45 http://www.health.sa.gov.au/pros/portals/0/Prospectus_2006.pdf
46
47 accessed on 18 Dec 2008
48
49 19 Marshall H, Ryan P, Robertson D, Street J. Pandemic influenza:
50
51 Community preparedness? 11th National Immunisation Conference.
52
53 Surfers Paradise 2008.
54
55 20 Blendon R, Benson J, DesRoches C, Raleigh E, Taylor-Clark K. The
56
57 Public's response to severe acute respiratory syndrome in Toronto and
58
59 the United States. *Clinical Infectious Diseases*. 2004;38(7):925-31.
60
21 Frewer L. The public and effective risk communication. *Toxicology*
letters. 2004 April;149(1-3):391-7.
22
Weinstein R. Planning for epidemics The lessons of SARS. *The New*
England Journal of Medicine 2004:2332-4.

- 1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
- 23 Lau JTF, Yang X, Tsui H, Kim JH. Monitoring community responses to the SARS epidemic in Hong Kong: from day 10 to day 62. *Journal of Epidemiology and Community Health*. 2003 November 1;57(11):864-70.
- 24 Finlay C. The Toronto Syndrome: SARS, risk communication and the flow of information, America. [Online] 2005 Inter-disciplinary Press. Available from: <http://www.inter-disciplinary.net/transform/Finlay-Sars.pdf>, accessed on 19 December 2008.
- 25 Kittler AF, Hobbs J, Volk LA, Kreps GL, Bates DW. The Internet as a vehicle to communicate health information during a public health emergency: A survey analysis involving the anthrax scare of 2001. *Journal of Medical Internet Research*. 2004 March 3;6(1). DOI:10.2196/jmir.6.1.e8
- 26 Gallup Poll. Media Use and Evaluation. [Online] Gallup Inc. Northern America. Available from: <http://www.gallup.com/poll/1663/Media-Use-Evaluation.aspx> accessed on 19 Dec 2008.
- 27 Alders RG, Bagnol B. Effective communication: the key to efficient HPAI prevention and control. *World's Poultry Science Journal*. 2007;63(1):139-47.
- 28 Cava M, Fay K, Beanlands H, McCay E, Wignall R. Risk perception and compliance with quarantine during the SARS outbreak. *Journal of Nursing Scholarship*. 2005;37(4):343-7.
- 29 Covello V, Peters R, Wojtecki J, Hyde R. Risk communication, the West Nile virus epidemic, and bioterrorism: responding to the communication challenges posed by the intentional or unintentional release of a pathogen in an urban setting. *Journal of Urban Health*. 2001;78(2):382-91.
- 30 Roth HP. Costly Avian Flu: Would Your Company Be Ready? *The Journal of Corporate Accounting & Finance*. 2007(March/ April). DOI: 10.1002/jcaf.20286
- 31 DuHamel C. Dealing with SARS: Toronto Hospital learned to survive beyond the crisis communication plan. *Communication World*. 2003;20.5(August-Sept 2003): p26(6).

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

32 Sorenson J. Hazard warning systems: review of 20 years of progress. Natural Hazards Review. 2000;May:119-125.

33 Hatchett RJ, Mecher CE, Lipsitch M. Public health interventions and epidemic intensity during the 1918 influenza pandemic. Proceedings of the National Academy of Sciences. 2007 May 1;104(18):7582-7. DOI: 10.1073/pnas.0610941104

For Peer Review

Table 1: Forum characteristics

Characteristic	n
	(n=12)
Age	
20-34	5
35-54	4
55+	3
Gender	
Male	6
Female	6
Nationality	
Australian born	10
Born overseas	2
English as first language	12
Employment status	
Unemployed	1
Disability pension	1
Employed fulltime	4
Apprentice	1
Employed part-time	3
Retired	2
Highest Education Level	
Year 10 or 11	2
Year 12	4
Diploma or trade certificate	4
University degree	1
Not provided	1

1
2
3 **TABLE 2: SUMMARY RECOMMENDATIONS FROM DELIBERATIVE FORUM ON**
4
5 **COMMUNICATION IN A PANDEMIC**
6
7

8
9
10 That our society should spend money on communicating pandemic plans and
11 precautions and that this information should:
12

- 13
- 14 • be available prior to the arrival of a pandemic
 - 15
 - 16 • be introduced over time
 - 17
 - 18 • use existing communication mechanisms and public-private partnerships
 - 19
 - 20 • commence immediately
 - 21
 - 22

23 That communication should be truthful, emphasise the ease with which PI can
24 spread, the extent of the risk to citizens of all ages and that the onset may be
25 sudden
26
27
28

29 That during a pandemic, all information including accurate infection and mortality
30 rates be made available (not watered down) and that this information should be
31 relayed by the relevant health authority in conjunction with high level politicians
32
33
34

35 That there should be a one stop shot on the internet to provide pandemic disease
36 information
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

Table 3: FINDINGS FROM DELIBERATIVE FORUM ON COMMUNICATION IN A PANDEMIC

	Before a pandemic (Scenario 1)	During a pandemic - containment stage (Scenario 2)	During a pandemic - maintenance stage (Scenario 3)
What information should the public receive about PI?	<ol style="list-style-type: none"> Detailed and comprehensive information about: <ul style="list-style-type: none"> current situation; PI; seasonal influenza. Raise awareness of potential for PI. 	<ol style="list-style-type: none"> Accurate and credible information about the imminence of a pandemic. Practical information about what to do. Information about location of the index case(s) to level of suburb. 	<ol style="list-style-type: none"> Accurate and credible information. Practical information about what to do. Information about progress of pandemic. Information about goods, services and social functioning.
How should this information be communicated?	<ol style="list-style-type: none"> Clear and easily understood language. Digestible amounts of information. Increasing in content and complexity Use of television with a range of formats. Community settings and distribution networks. Education through schools Use of internet to reach young people, rural and remote communities, people with disabilities, and working people. 	<ol style="list-style-type: none"> Build on information provided before a pandemic. Substantial media reporting. Government websites 	<ol style="list-style-type: none"> Continuous updates on pandemic progress. Dedicated sources of information through television, internet and radio.
Who should communicate?	<ol style="list-style-type: none"> Experts rather than politicians. General practitioners. Non-government organisations. 	<ol style="list-style-type: none"> Experts. Affected individuals. 	<ol style="list-style-type: none"> Experts. Survivors
When should communication occur?	Now	As soon as there are confirmed cases in Australia	Frequently (every two-hourly) and available continuously.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27
- 28
- 29
- 30
- 31
- 32
- 33
- 34
- 35
- 36
- 37
- 38
- 39
- 40
- 41
- 42
- 43
- 44
- 45
- 46
- 47
- 48
- 49
- 50
- 51
- 52
- 53
- 54
- 55
- 56
- 57
- 58
- 59
- 60

For Peer Review

Boxes

Box 1 Hypothetical scenarios used by Deliberative Forum

Scenario 1: Before a pandemic

Information was provided about the current world situation including the potential for pandemic influenza, the limited evidence for communication strategies, political and ethical issues associated with communication, and international recommendations.

Scenario 2: During the pandemic - containment stage

This was a hypothetical scenario of an international outbreak of pandemic influenza, predominately in Indonesia and Vietnam. The first Australian cases are in a NSW family who holidayed in Bali. The 19 year old daughter has died, and suspected cases have been reported in the family's suburb in northern Sydney. Contact tracing is underway and some people have been asked to remain in voluntary isolation or quarantine. The epidemiology of this influenza strain is unknown although it appears to affect all ages. At this stage the spread of the virus is highly localised.

Scenario 3: During the pandemic - maintenance stage

This was a hypothetical scenario set in week 5 of a full pandemic. The influenza virus is now widespread throughout most major capital and regional centres in Australia. In South Australia approximately two hundred thousand cases have been reported with 1232 deaths.ⁱ Half of the deaths have been people aged below fifty. Flu clinics, set up in council offices around the state, are working to capacity and the major metropolitan hospital is finding it hard to cope with the high number of cases. Only remote rural areas appear to be unaffected. The virus is transmitting rapidly between people, and more and more people are staying home from work, school and social engagements because they are afraid of catching the virus.

ⁱ These figures were based on modelling by (Graham Tucker, Health SA) using FluAID software (CDC) and a projected 25% attack rate. The SA Health plan forecasts 46,000 new cases per week with 2600 deaths over eight weeks.

Box 2: Key objective for Stages 1-3 of the Australian PI Communication**Strategy****Key communication objectives Stage 1**

Communications activities during Communication Stage One aim to build a base level of awareness and understanding across the general public and primary care providers regarding the nature of the risk of avian influenza and the threat of an influenza pandemic. ^{12, p.6}

Key communication objectives Stage 2

Communications activities during Communication Stage Two aim to build strong awareness of the pandemic threat and what can be done to prepare, including, the personal actions that can be undertaken to minimise the impact of the disease in Australia. ^{12, p.9}

Key communication objectives Stage 3

Communications activities during the Communication Stage Three will inform and reinforce the need for the appropriate actions that will minimise disease transmission and that will support the maintenance of essential community services. The communications strategy will be enhanced to support the deployment of the National Medicines Stockpile and a pandemic vaccine, once it is available. ^{12, p.11}