

Table S1. Overview of the included peer-reviewed and grey literature.

Peer-reviewed publications					
Author; year; country	Methodology	Study population	PHE context	Geographic scope	Decision-making context
Abeyasinghe 2014 (Abeyasinghe, 2014); UK	Qualitative textual analysis	WHO	2009 influenza pandemic	Global	WHO's pandemic response
Abeyasinghe 2017 (Abeyasinghe, 2017); UK	Qualitative textual analysis	WHO & Council of Europe	2009 influenza pandemic	Global	WHO's pandemic response
Baekkeskov 2014 (Baekkeskov, 2014); Australia	3 case studies, qualitative design	International public health agency (PHA) in Europe	2009 influenza pandemic	Europe	PHA's pandemic response
Baekkeskov 2016 (Baekkeskov, 2016a); Australia	3 case studies, qualitative design	Public health & government officials	2009 influenza pandemic	Sweden, the Netherlands, Denmark	Vaccination policy decisions
Baekkeskov 2016 (Baekkeskov, 2016b); Australia	Case study, qualitative design	Public health & government officials	2009 influenza pandemic	The Netherlands, Denmark	Vaccination policy decisions
Baekkeskov 2017 (Baekkeskov and Öberg, 2017); Australia	Case study, mixed methods	National experts	2009 influenza pandemic	Sweden, Denmark	Vaccination policy decisions
Baekkeskov 2014 (Baekkeskov and Rubin, 2014); Australia	Case study, mixed methods	Public health & government officials	2009 influenza pandemic	9 countries: US & Denmark in detail	Vaccination policy decisions
Barker 2012 (Barker, 2012); UK	Review & discussion	UK governance system	2009 influenza pandemic	UK	UK's pandemic response

Broekema 2018 (Broekema et al., 2018); the Netherlands	In-depth analysis of 114 evaluation reports	Dutch crisis management system	60 crises (5 disease outbreaks) between 2000 - 2013	The Netherlands	Cooperation between external experts & Dutch crisis management system
Burkle 2015 (Burkle and Hanfling, 2015); US	Review and discussion	US Government	2014 Ebola epidemic	US	US response to Ebola
Chambers 2012 (Chambers et al., 2012); UK	Reflections & review of communications & reports	The Heart of Birmingham Teaching Primary Care Trust	2009 influenza pandemic	UK	UK's response from local perspective
Crosier 2015 (Crosier et al., 2015); UK	3 case studies, qualitative design	Senior policy & communication officials, social scientists	2009 influenza pandemic	England, Italy, Hungary	Planning & implementation of communication strategies
Driedger 2014 (Driedger et al., 2014); Canada	Case study, qualitative design	Mathematical modellers & senior public health professionals	2009 influenza pandemic	Canada	Decision-making among PH professionals in academia & government
Feufel 2010 (Feufel et al., 2010); Germany	Review & discussion	Policymakers & general public	2009 influenza pandemic	Germany	National pandemic response & risk communication
Forcades 2015 (Forcades Vila, 2015); Spain	N/A	WHO & health authorities globally	2009 influenza pandemic	Global	Vaccination policy decisions
Hanquet 2011 (Hanquet et al., 2011); Belgium	Conference paper, workshop summary report	WHO, EMA, DG Sanco, ECDC, BE,	2009 influenza pandemic	Europe	Vaccination policy decisions

		DE, HU, IT, NL, SE, UK			
Huizer 2015 (Huizer et al., 2015); the Netherlands	Interviews	Public health officials in risk assessment & policymaking	Fictional case	The Netherlands	Decision-making for Dutch epidemic control
Kamradt-Scott 2012 (Kamradt-Scott, 2012); Australia	Review & historical analysis	Global community	Influenza pandemics & epidemics	Global	Global pandemic influenza public policy decisions
Kamradt-Scott 2013 (Kamradt-Scott, 2013); Australia	Review & historical analysis	Global community	Influenza pandemics & epidemics	Global	Global pandemic influenza public policy decisions
Kamradt-Scott 2016 (Kamradt-Scott, 2016); Australia	Critical analysis	WHO	2014 Ebola epidemic & other PHEs	Global	WHO's management of PHEs
Kayman 2015 (Kayman et al., 2015); US	Survey & statistical analysis	Health officials at local public health departments	2009 influenza pandemic	California, US	School closure decisions in California
Keller 2012 (Keller et al., 2012); US	Multiple case studies, literature review, interviews, workshops	FR, CN, US, WHO/ECDC regional, WHO, UN, MSF global	2009 influenza pandemic	Global	Pandemic national/regional & global response
Kilianski 2015 (Kilianski and Evans, 2015); US	Case study, review & discussion	Scientific community	2014 Ebola epidemic	US	Science communication for policy decisions
Klaiman 2011 (Klaiman et al., 2011); US	Case study, qualitative design	Decision-making authorities for school closures	2009 influenza pandemic	US	School closure decisions in the US

Krause 2010 (Krause et al., 2010); Germany	Workshop summary report	Key stakeholders involved in preparedness & response	2009 influenza pandemic	Germany	National pandemic response
Lazarus 2016 (Lazarus et al., 2016); France	Comment	National health authorities	Zika virus	France	French response to/experience with Zika
Mansnerus 2012 (Mansnerus, 2013); UK	Document analysis	Health authorities	2009 influenza pandemic	UK, Finland	UK/national pandemic response
Müller-Seitz 2013 (Müller-Seitz and Macpherson, 2013); Germany	Case study, qualitative design	Hospitals, academia, public agencies, opposition parties, NGOs	2011 EHEC (HUS) outbreak	Germany	Germany's response during EHEC (HUS) outbreak
Rizzo 2010 (Rizzo et al., 2010); Italy	Surveillance & outbreak report	National health authorities & policymakers	2009 influenza pandemic	Italy	National pandemic response
Roodenrijs 2014 (Roodenrijs et al., 2014); the Netherlands	Case study, qualitative design	Stakeholders involved in risk assessment & management	Q-fever & Schmallenberg virus	The Netherlands	Hypothesized application of new risk governance framework
Rosella 2013 (Rosella et al., 2013); Canada	Case study, qualitative design	Authorities involved in decision-making processes	2009 influenza pandemic	Canada	Decision-making process for 4 policies on vaccination, school closures, PPE
Schuchat 2011 (Schuchat et al., 2011); US	Review & discussion	CDC	2009 influenza pandemic	US	US/CDC response to 2009 influenza pandemic

Stollorz 2013 (Stollorz, 2013); Germany	Review & discussion	Experts and policymakers	2009 influenza pandemic	Germany	National pandemic response & risk communication
Upshur 2012 (Upshur, 2012); Canada	Review & discussion	Public health community	SARS	Canada	Public health response to SARS outbreak in Canada
Van der Sande 2013 (Van Der Sande et al., 2013); the Netherlands	Review & discussion	Dutch decision- making bodies	2009 influenza pandemic	The Netherlands	National pandemic response
Van Kerkhove 2012 (Van Kerkhove and Ferguson, 2012); UK	Lessons learned review & discussion	WHO & global community	2009 influenza pandemic	Global	Global pandemic influenza response
Weeramanthri 2010 (Weeramanthri et al., 2010); Australia	Review of government response	Commonwealth & State and Territory Government	2009 influenza pandemic	Australia	Australia's pandemic response
Non-peer-reviewed documents					
Association of State and Territorial Health Officials 2010 (ASTHO, 2010); US	Report; Survey, review meetings, advisory panel meeting	Decision-makers at federal and state level	2009 influenza pandemic	US	Pandemic response at federal and state level
Directorate for Civil Protection and Emergency Planning 2011 (DSB, 2011); Norway	Report; Dialogue and stakeholder meetings, documentation review, 3 surveys	Norwegian health authorities	2009 influenza pandemic	Norway	National pandemic response

Health Protection Agency 2010 (HPA, 2010); UK	Report on behalf of DG SANCO; Survey, interviews, review of situation & media reports	21 Member States, ECDC, EMA, & DG SANCO	2009 influenza pandemic	EU	EU-wide pandemic response except vaccination policy decisions
Health Quality Council of Alberta 2010 (HQCA, 2010); Canada	Report on behalf of the Government of Alberta; review of documentation, interviews	Alberta Health and Wellness, Alberta Health Services, & and Alberta Emergency Management Agency	2009 influenza pandemic	Alberta, Canada	Response coordinated by 3 lead agencies
Public Health Agency of Canada 2010 (Canada, 2010); Canada	Report; review of documentation, interviews	Public Health Agency of Canada & Health Canada	2009 influenza pandemic	Canada	Response coordinated by the 2 agencies
House of Commons 2011 (Commons, 2011); UK	Report; case studies, written & oral evidence	Key stakeholders involved in policymaking	2009 influenza pandemic	UK	UK's response & use of scientific advice in emergencies
ECDC 2015 (ECDC, 2015); Sweden	Report; peer-review country visit	National authorities	2014 Ebola epidemic	Belgium	Ebola preparedness & response decisions
Hine 2010 (Dame Deirdre Hine, 2010); UK	Report; independent review; review of documentation; interviews	UK decision-making bodies across the 4 nations	2009 influenza pandemic	UK	UK response to pandemic

Flynn 2010 (Flynn, 2010); France	Report of the Parliamentary Assembly, Council of Europe; N/A	WHO, EU & national health authorities (FR, PL)	2009 influenza pandemic	Global	Governance of 2009 pandemic
Greco 2010 (Greco D, 2011); Sweden	Corporate report; qualitative text analysis, interviews, survey	ECDC	2009 influenza pandemic	Global	ECDC's pandemic response
Stein 2011 (Stein et al., 2011); the Netherlands	Chronological report; review of documentation	RIVM	2009 influenza pandemic	The Netherlands	RIVM's pandemic response
WHO 2011 (WHO, 2011); Switzerland	Report by the Director-General; Report of the Review Committee	WHO & MS	2009 influenza pandemic	Global	Implementation of IHR, PHEIC declaration, global pandemic response