

Emergency Preparedness and Response: School Dismissals to Reduce Transmission of Pandemic Influenza

Summary Evidence Table - Actual School Dismissals for Pandemic Influenza, Seasonal Influenza, or Breaks During Influenza Season

Studies Evaluating One or More Outcomes from a School Dismissal During the H1N1 Pandemic

Study Author/Yr	Location	Influenza Type	Dismissal Type	Threshold for Dismissal	Scale of Dismissal	Duration of Dismissal	Outcomes Illness	Outcomes Burdens	Outcomes Other
Basurto-Dávila 2013	Ushuaia, Jujuy, AR	H1N1	Pre-emptive school	Student case	School	14 days		Work missed	Social contact
Borse 2011	NYC, US	H1N1	Reactive	School outbreak	7 schools	7 days		Missed work	Social contact
Calatayud 2009	London, UK	H1N1	Reactive	Student cases	School	9 days	Epidemic curve: Illness		
CDC 2010	US survey	H1N1	Not reported	NR	NR	89% \leq 5 days		Missed work Income lost	Social contact
Chieochasin 2009	Bangkok, Thailand	H1N1	Pre-emptive community	School outbreak	Districts (cities)	24 days	Epidemic curve		
Copeland 2013	TX, US	H1N1	Pre-emptive community	11 student cases	District	7 days	Illness	Work missed Income lost	Social contacts
Dooyema 2014	MI, US	H1N1	Reactive school	High absenteeism	Schools (137/937 schools closed)	Mean 4.7 days Range: 1-8 days	Illness/ absent		Other interventions
Echevarria-Zuno 2009	Mexico	H1N1	Various	Pandemic	Region / nation	14-17 days	Epidemic curve		
Effler 2010	Perth, Australia	H1N1	Pre-emptive school	Student case(s)	3 schools	7 days	Epidemic curve	Missed work	Social cntct Childcare
France 2010	NYC, US	H1N1	Reactive	School outbreak	School	7 days	Illness/ absent		Antiviral use
Gift 2010	PA, USA	H1N1	Reactive	School outbreak	School	7 days		Missed work	Social contact

School Dismissals to Reduce Transmission of Pandemic Influenza, Actual School Dismissals – Evidence Table

Health Protection Agency 2009	Birmingham, UK	H1N1	Reactive	School outbreak	School	7 days	Epidemic curve		
Hseuh 2010	Taipei, Taiwan	H1N1	Pre-emptive (classes)	Student cases	Nation	5 days	Epidemic curve		Vaccination
Jarquín 2011	MI, US	H1N1	Pre-emptive school	Student case	School	7 days		Minimal econ impact	Social contact
Kawaguchi 2009	Osaka, Japan	H1N1	Pre-emptive community	1 School outbreak	State	9 days	Illness		
Lessler 2009	NYC, US	H1N1	Reactive	School outbreak	School	9 days	Epidemic curve; Illness		
Loustalot 2011	TX, US	H1N1	Pre-emptive school	Student cases	School	8 days	Epidemic curve; Illness		Home NPI
Marchbanks 2011	PA, US	H1N1	Reactive	School outbreak	School	7 days	Epidemic curve; Illness		Healthcare Antivirals
Miller 2010	Boston, US	H1N1	Reactive	School outbreak	School	7 days	Epidemic curve; Illness	Missed work	Social contact
Wallenstein 2009	SW England	H1N1	Pre-emptive school	Student case	School	10 days	Epidemic curve		
Wu 2010	Hong Kong	H1N1	Pre-emptive community	Community case	State	1 month (early end)	Illness/absent		

Studies Evaluating School Dismissals During Seasonal Influenza (Outbreaks)

Study Author/Yr	Location	Influenza Type	Dismissal Type	Threshold for Dismissal	Scale of Dismissal	Duration of Dismissal	Outcomes Illness	Outcomes Burdens	Outcomes Other
CDC 2009	SE KY, US	Seasonal	Reactive	Absenteeism >15%	District	3, 4 days	Illness/absent	Work missed Income lost	School meals
Cowling 2008	Hong Kong	Seasonal	Pre-emptive community	3 deaths in children	State	14 days	Epidemic curve; Illness		
Johnson 2008	Yancy NC, US	Seasonal	Reactive	Absenteeism 17%	District	10 days	Epidemic curve	Work Missed	Social contact Childcare

Studies Evaluating School Dismissals Occurring During Influenza Season (Due to Factors Other than Outbreak)

Study Author/Yr	Location	Influenza Type	Dismissal Type	Threshold for Dismissal	Scale of Dismissal	Duration of Dismissal	Outcomes Illness	Outcomes Burdens	Outcomes Other
Garza 2010	Argentina	Influenza Season	Pre-emptive community	Winter break	Nation	14 days	Illness		
Heymann 2009/2004	Israel	Influenza Season	Pre-emptive Community	Teacher strike	Nation	12 days	Illness		Healthcare
Rodriquez 2007	King Co., WA, US	Influenza Season	Pre-emptive community	Winter break	Half of Schools	7 days	Illness		
Wheeler 2010	Arizona, US	Influenza Season	Pre-emptive community	Winter break	State	14 days	Illness		

Studies Evaluating Impact of School Opening/Closing on Community-Wide Illness (H1N1/Seasonal Flu)

Study Author/Yr	Location	Influenza Type	Dismissal Type	Threshold for Dismissal	Scale of Dismissal	Duration of Dismissal	Outcomes Illness	Outcomes Burdens	Outcomes Other
Chao 2010	United States	H1N1	-	-	-	-	Illness with school start		
Earn 2012	Alberta, Mexico	H1N1	-	-	-	-	Epidemic curve; Illness with school close and start		

Epidemic curve: Study (typically an investigation of an outbreak of illness) provided an epidemic curve identifying the timeline for cases of illness

Illness: Most commonly influenza like illness (ILI)

NPI: Non-pharmaceutical interventions (including personal protective behaviors)

Social contact: Surveys about activities outside of the home during a school dismissal period