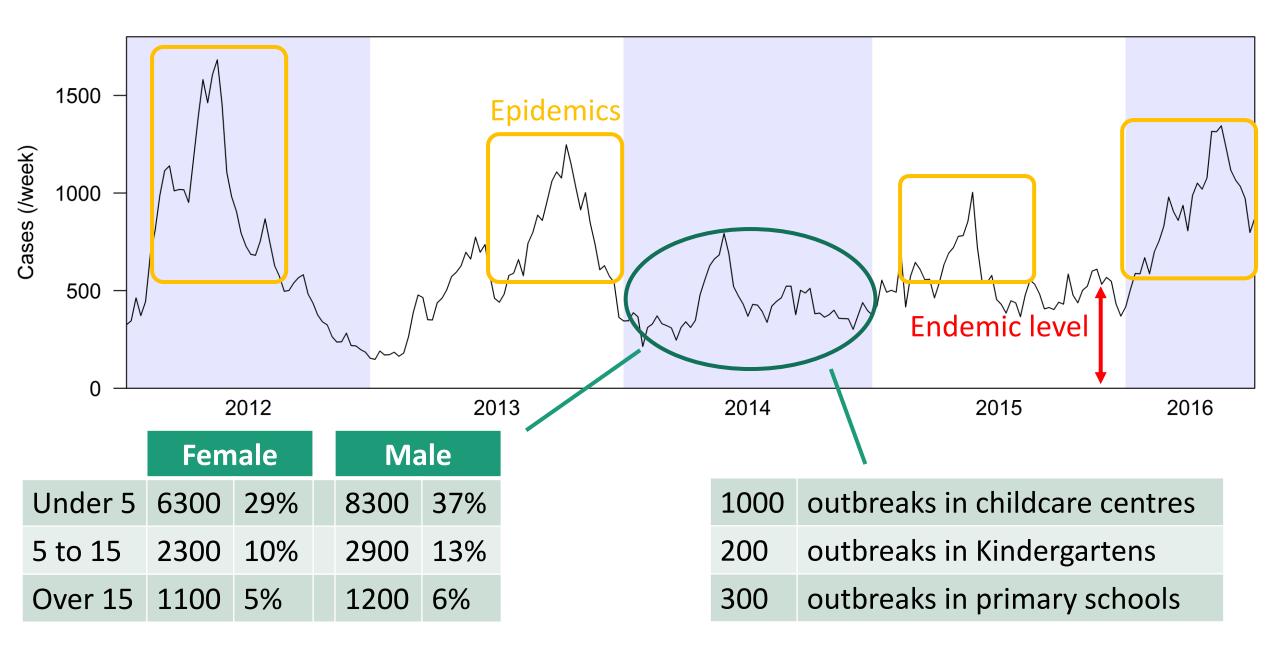
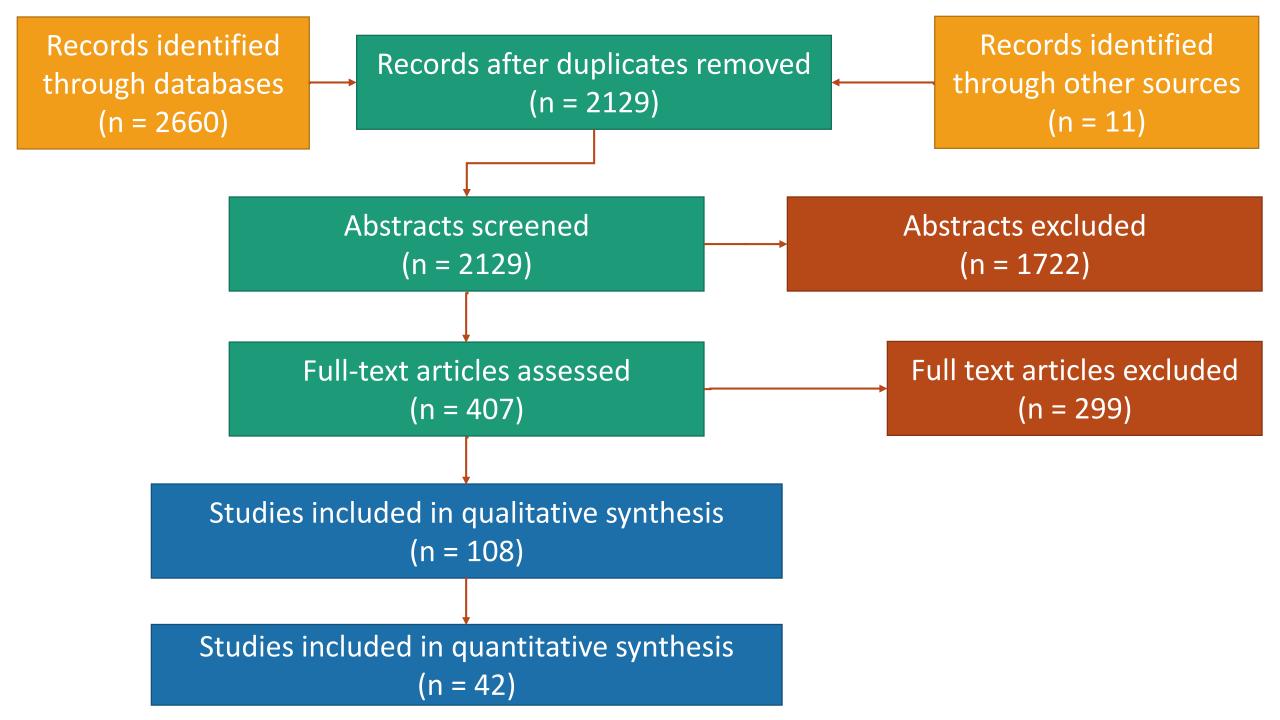


Screening Isolation Closure

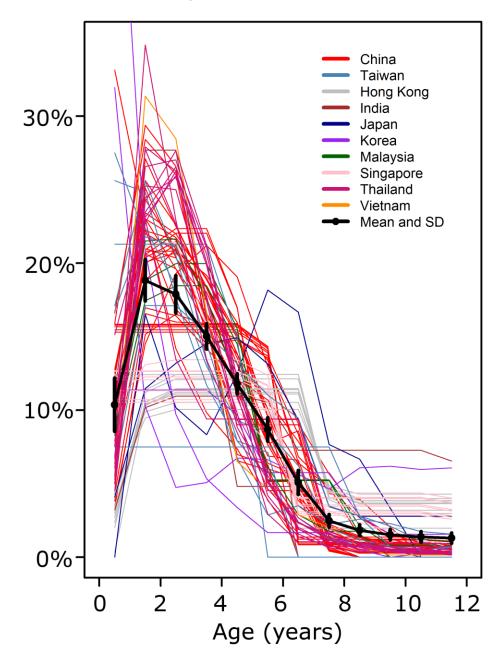
Epidemiology of HFMD

(https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5130063/)





Proportion of HFMD cases



			Incubation period (d)													
Year	Ref.	Evidence	1	2	3	4	5	6	7	8	9	10	11	12	13	
1975	[112]	No ⁽¹⁾														
1982	[79]	Yes ⁽²⁾				•			<u> </u>	Genera	ation	time!				
2003	[109]	No														
2005	[63]	No														
2008	[15]	No														
2009	[104]	No			_											
2010	[110]	No				-	-	-								
2010	[86]	Cit'n ⁽³⁾														
2011	[23]	No														
2011	[11]	Cit'n ⁽⁴⁾														
2011	[111]	No				_	_									
2011	[30]	No														
2011	[106]	No														
2013	[89]	No														

The basic epidemiology of HFMD is not well understood

We have constant transmission in SG

Most cases are not diagnosed but may still transmit

We don't know how long the incubation period is

In-depth interviews

(https://www.ncbi.nlm.nih.gov/pubmed/28179628)

Semi-structured interview of

17 parents

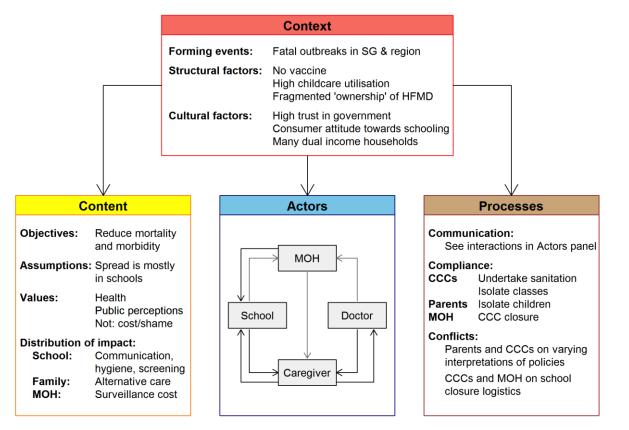
4 principals

21 teachers

in English or Mandarin

Translated/transcribed and analysed using applied thematic analysis in NVivo Parents noted playground, school and family as places they thought their child was infected

A majority of parents noted recent contact with an infected friend or family member **outside school** prior to infection



Schools implemented occasionally drastic interventions

Teachers described increasing cleaning, forbidding parents from entering, more frequent checks, more handwashing, stopping outdoor play, making children play alone or in pairs, isolating classes:

> "Upon discussion with our managers, I think ... this age is very sensitive and disease spread very easily. So to play safe and conservative, we are not combining classes at all times now."

Teachers support isolation of sick children, parents less so

Teachers support notification to MOH but

complain that parents do not tell them their

child is sick "Sometimes when the MOH officer comes down and he shows me his list and he compares it with my list, I have encountered like discrepancies... I would see things like the parents went to see the doctor on the 8th, maybe, and it has been confirmed already, but the mum did not tell me, the mum still brought him to school on the 8th."

and that they try to "beat" isolation:

"For example, yesterday we have photo taking. The child is suspected to have hand foot and mouth but doctor refused to give the parents letter to let the child back because the doctor say actually the child has to rest one more day. Today they can come back. But because of the photo shooting the parents insist to let the child back to school."

No one could see the point of naming and shaming

Teachers feel HFMD is beyond their control

"It's very de-demoralizing because how much we do, they don't know. They just publish it there and saying ok."

Parents don't see the point

"I really don't see much benefit. You mean their name is up there, you think parents are going to stop their children from going to school? ... There's no meaning behind it."

Parents and teachers felt closure was effective, but onerous

Teachers generally support it "So it's good to have the mandatory closure for 10 days like that so, you know, there's a break in the cycle and the kids get to stay at home and rest. And then, if we are able to, you know, sanitize and get the environment ready for the kids to come in back again."

but closure causes friction with parents

"The whole school have to close which is actually quite a disaster for all the parents and the teachers because we have to... we really have to explain to them why and then there are some parents that are quite difficult that we have to handle."

Substantial impacts on leave and alternative care

"So, for me I exhausted about 10 days ... for caring of them when they are sick and when I come back, a few days later, the school announce that they are close. ... So my supervisor even she wants to allow, give me the leave ... I'm not saying I'm very important, but some part of service will be ceased."

Parents report other contacts prior to school

"Drastic" interventions used

Isolation and closure cause problems for parents

Relationship between parents and teachers stressed

Impact of HFMD and of control

Work under review

Costs bearable at school level

Costs extremely high for parents

Overall burden of disease higher than expected

Modelling of closure

Work under review

No evidence of effectiveness: could be too late?

Conclusions

Control policies seem excessive:

little evidence that school closure prevents infection basic epidemiology is poorly understood impact on families and schools <u>and MOH</u> is disproportionate

Recommend relaxing control: restricting closure to special situations continuing with isolation dropping 'naming and shaming'

Recommend research on routes of transmission