

Appendix B Robustness tests of national level hotspot risk index

Pairwise correlation of indices (N=87; * 95 percent significance level)

	PCA-based risk index	Risk index based on average of standardized variables	Risk index Anderson (2008) method
PCA-based risk index	1		
Risk index based on average of standardized variables	0.6120* 0.0000	1	
Risk index Anderson (2008) method	0.4124* 0.0001	0.9716* 0.0000	1

Spearman rank correlation (N=87; * 95 percent significance level)

	PCA-based risk index	Risk index based on average of standardized variables	Risk index Anderson (2008) method
PCA-based risk index	1		
Risk index based on average of standardized variables	0.5414* 0.0000	1	
Risk index Anderson (2008) method	0.3303* 0.0019	0.9614* 0.0000	1

Classification difference test

	PCA-based risk index	Base: Risk index based on average of standardized variables	Risk index Anderson (2008) method
Highest risk tertile	50%	100%	90%
Middle risk tertile	37%	100%	73%
Lowest risk tertile	56%	100%	81%