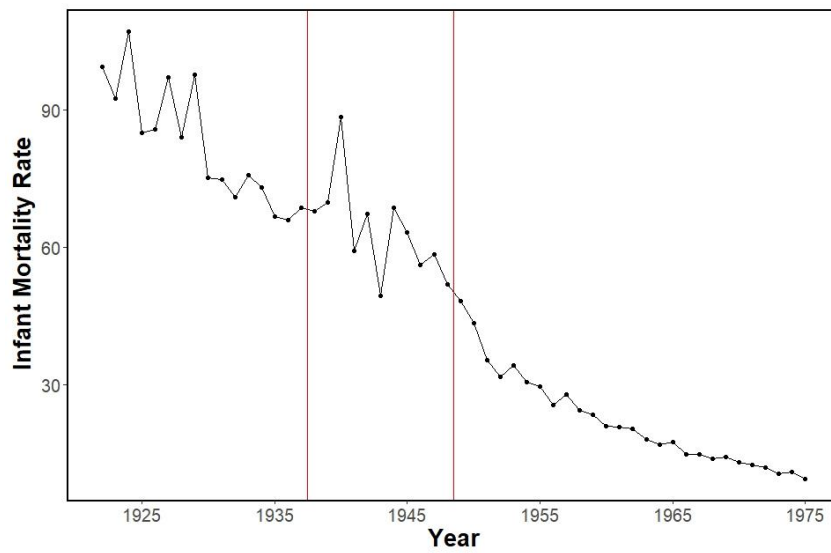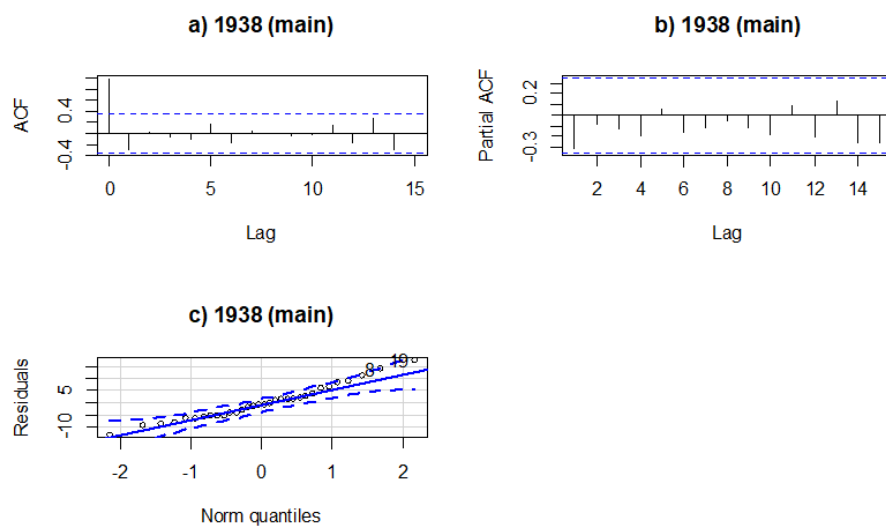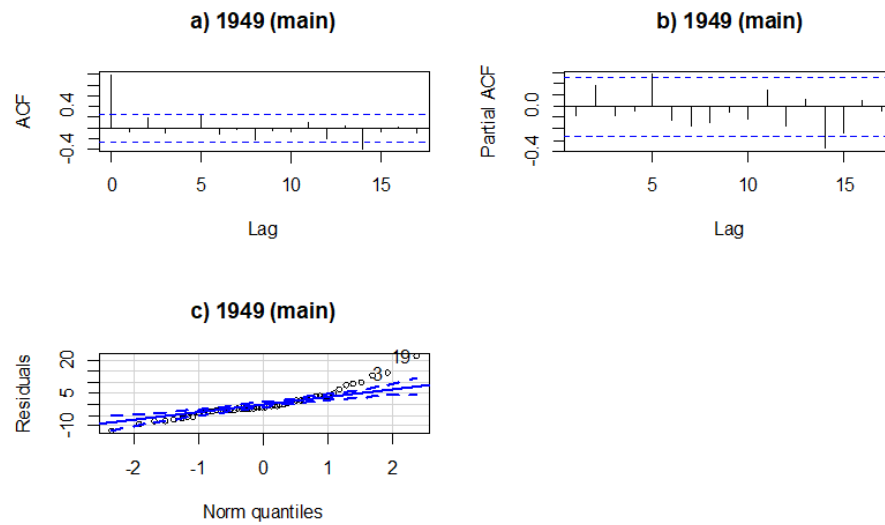**SUPPLEMENTAL MATERIAL**

Appendix 1

Finnish infant mortality rate per 1000 live births between 1922 and 1975, indicating point of Finnish Maternity Grant introduction in 1938 (left red vertical line) and universalisation in 1949 (right red vertical line).

Supplemental material

BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance placed on this supplemental material which has been supplied by the author(s)

J Epidemiol Community Health

Appendix 2

a) autocorrelation function (ACF), b) partial-autocorrelation function (P-ACF), and c) Q-Q plot of residuals for main interrupted time series model evaluating Finnish Maternity Grant introduction in 1938.

Supplemental material

BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance
placed on this supplemental material which has been supplied by the author(s)
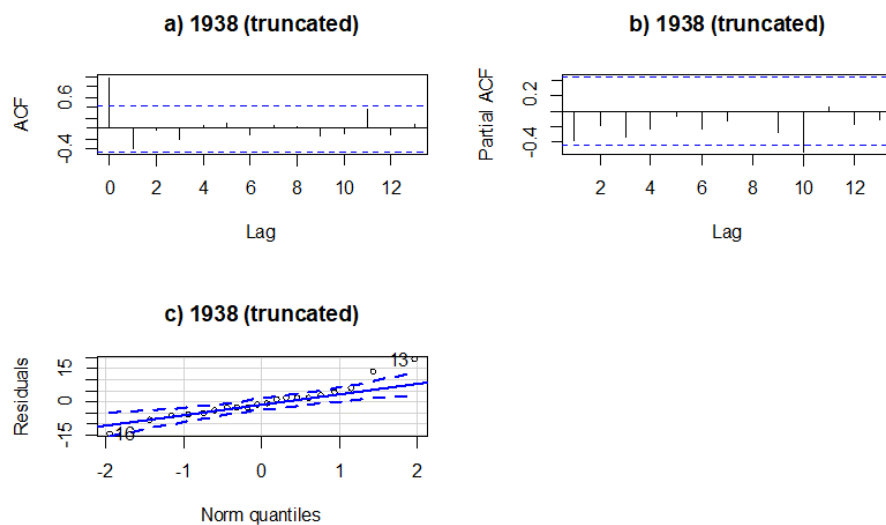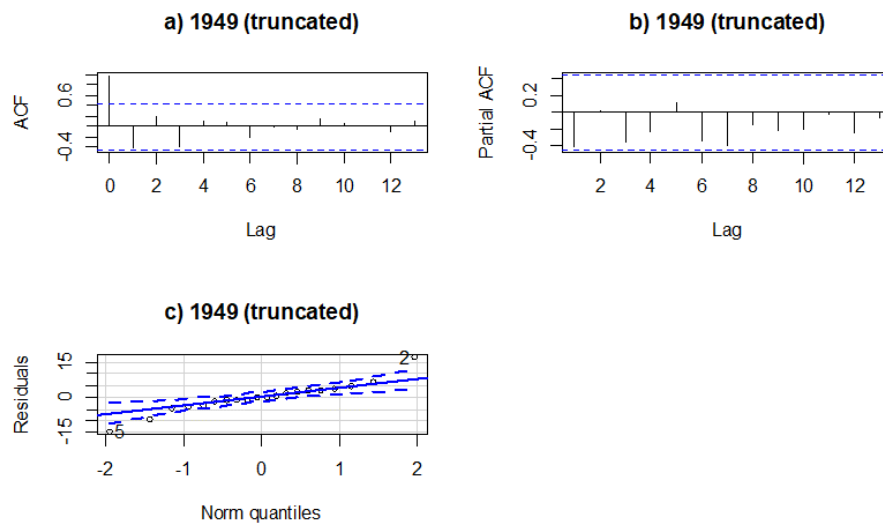
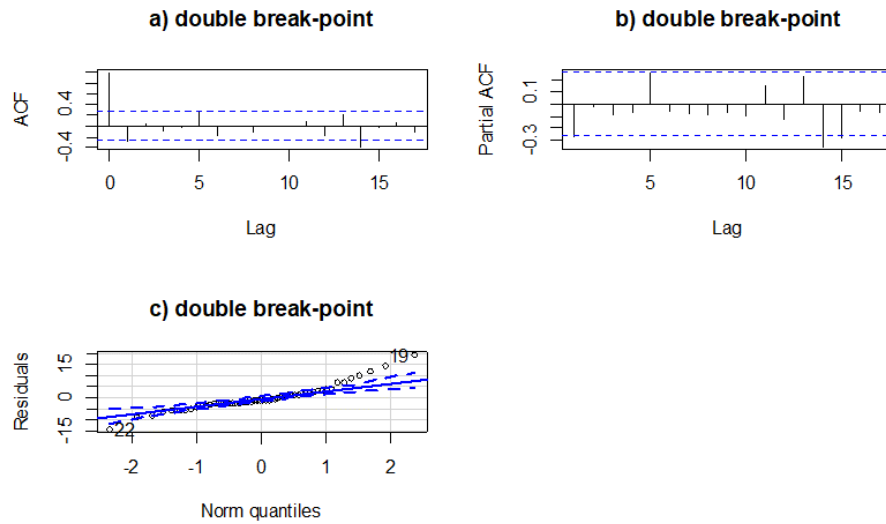*J Epidemiol Community Health*

Appendix 3

a) autocorrelation function (ACF), b) partial-autocorrelation function (P-ACF), and c) Q-Q plot of residuals for main interrupted time series model evaluating Finnish Maternity Grant universalisation in 1949.

Supplemental material

BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance placed on this supplemental material which has been supplied by the author(s)

J Epidemiol Community Health

Appendix 4

a) autocorrelation function (ACF), b) partial-autocorrelation function (P-ACF), and c) Q-Q plot of residuals for truncated interrupted time series model evaluating Finnish Maternity Grant introduction in 1938.

Supplemental material

BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance placed on this supplemental material which has been supplied by the author(s)

J Epidemiol Community Health

Appendix 5

a) autocorrelation function (ACF), b) partial-autocorrelation function (P-ACF), and c) Q-Q plot of residuals for truncated interrupted time series model evaluating Finnish Maternity Grant universalisation in 1949.

Appendix 6

a) autocorrelation function (ACF), b) partial-autocorrelation function (P-ACF), and c) Q-Q plot of residuals for double break-point interrupted time series model evaluating Finnish Maternity Grant introduction in 1938 and universalisation in 1949.

Appendix 7
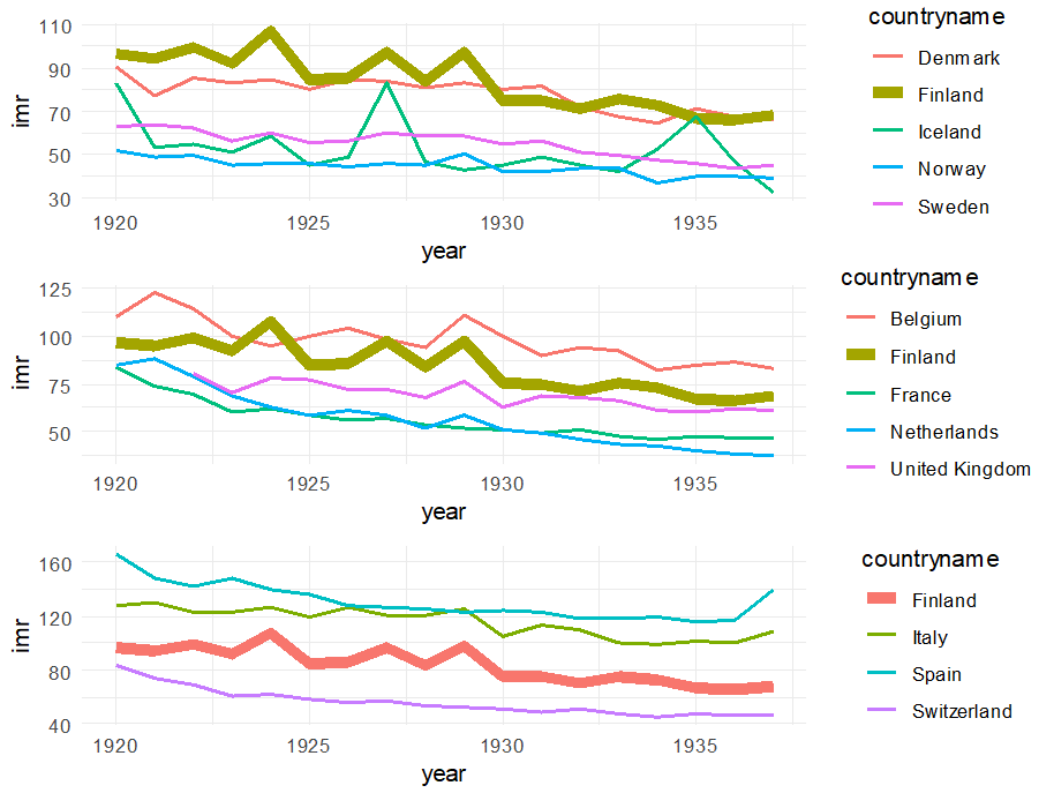
Comparison of infant mortality trends between Finland and potential control countries (grouped by geographical proximity) for the period 1920 to 1938. This visually highlights that none of the potential control countries would be a suitable comparator with Finland.
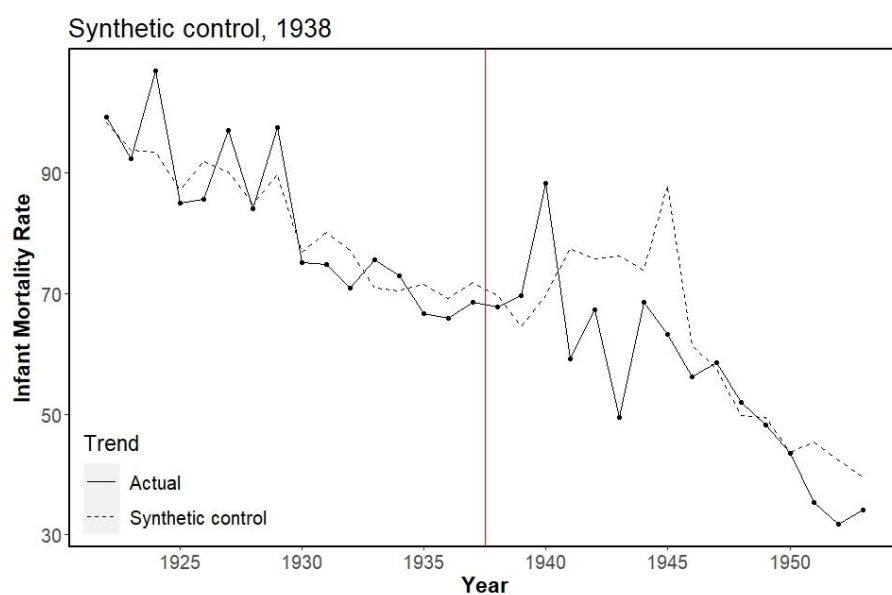
Appendix 8

SC analyses were conducted following Abadie & Gardeazabal (2007) and Abadie et al. (2011) (references in main text), drawing on eleven European donor populations: Belgium, Denmark, France, Iceland, Italy, Norway, Netherlands, Spain, Sweden, Switzerland, and the UK. All pre-intervention outcomes were used as the sole predictors to optimise pre-intervention fit. Output from these models are presented here as the mean squared predictive error (MSPE) indicating fit, the weights used by the model and a plot of the model trend. Further model diagnostics were not viewed as necessary owing to poor model fit.

Synthetic control for Maternity Grant introduction in 1938

MSPE = 30.19

Weights (%)	Donor country
0.0	Denmark
0.0	Norway
0.0	Sweden
44.5	Netherlands
0.0	France
48.4	Italy
0.0	Spain
0.0	Belgium
7.1	Iceland
0.0	Switzerland
0.0	United Kingdom

Table of weights (%) used in SC by country

Synthetic control, 1938

Supplemental material

BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance placed on this supplemental material which has been supplied by the author(s)

J Epidemiol Community Health

Plot of SC model. Vertical line indicates point of Maternity Grant introduction in 1938.

Synthetic control for Maternity Grant universalisation in 1949

MSPE = 59.07

Weights (%)	Donor country
23.6	Denmark
0.0	Norway
2.2	Sweden
0.0	Netherlands
9.0	France
11.3	Italy
1.6	Spain
34.5	Belgium
5.6	Iceland
9.0	Switzerland
3.2	United Kingdom

Table of weights (%) used in SC by country
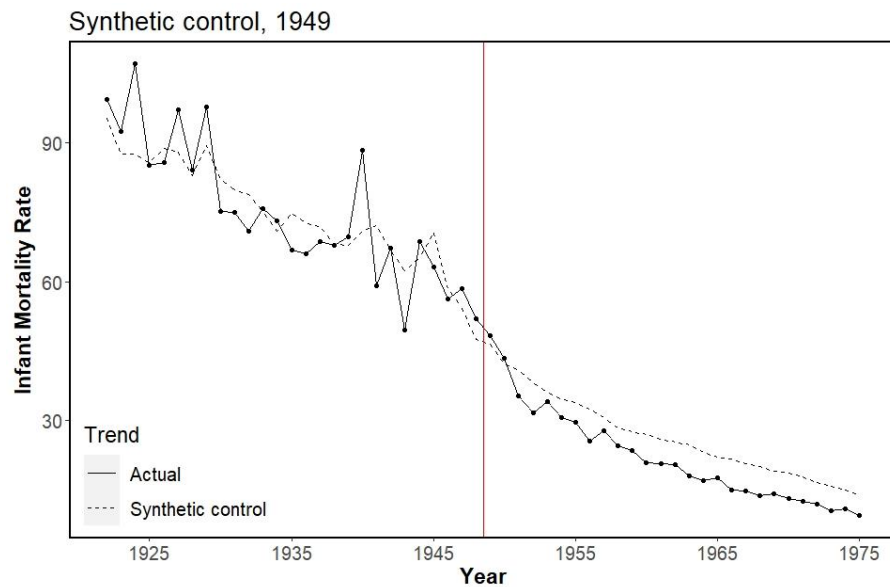
Plot of SC model. Dashed vertical line indicates point of Maternity Grant universalisation in 1949.