Widening Inequalities in Smoking Prevalence Amongst Adult Males over time in England, Northern Ireland, Scotland and Wales

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Background

Smoking

– Single greatest cause of premature death in UK
– Important factor in health inequalities
– National policies aim to reduce inequalities*
– However, evidence of increasing inequality


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**Table 2 – Behavioural risk factors and social support by National Statistics Socio-economic Classification, five class version (NS-SEC).**

<table>
<thead>
<tr>
<th>Year</th>
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<th>NS-SEC</th>
<th>RIIa (95% CI)</th>
<th>RII change: t-test (P)</th>
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Methods

• Data:
  – HSE 1993-2011 [19 time points]
  – BHPS 1991-2008 [E 18, NI 8, S 10, W 10]

• Measure of social class:
  – 5 class version of NS-SEC
    1: Managerial and professional
    2: Intermediate
    3: Small employers and own account workers
    4: Lower supervisory and technical
    5: Semi-routine and routine
Methods 2

• Age adjusted RII* calculated for current cigarette smoking for each year for each nation

• Using fitted lines, trends over time examined for significance

• Fitted lines by either linear or lowess (locally weighted scatterplot smoothing)

RII = Relative Index of Inequality
“A measure of the extent to which the occurrence of an outcome varies with socio-economic status or some other background variable.” (Sergeant & Firth, 2006)
WALES
Smoking: Prevalence and RII

Red - WHS; Blue - BHPS
WALES
Smoking: Prevalence and RII

Year
1990
1995
2000
2005
2010
Prevalence
0.26
0.28
0.3
0.32
RII
2
3
4
5
6
Red - WHS; Blue - BHPS
SCOTLAND
Smoking: Prevalence and RII

Red - SHS; Blue - BHPS
SCOTLAND

Smoking: Prevalence and RII

Year

Prevalence

RII


Red - SHS; Blue - BHPS
SCOTLAND
Smoking: Prevalence and RII

Year

Prevalence

RII


Red - SHS; Blue - BHPS
SCOTLAND

Smoking: Prevalence and RII

Prevalence

Year


Red - SHS; Blue - BHPS
SCOTLAND

Smoking: Prevalence and RII

Prevalence

Year


Red - SHS; Blue - BHPS
SCOTLAND

Smoking: Prevalence and RII

Year

Prevalence
0.25 0.3 0.35 0.4

RII
4 6 8 10 12

Red - SHS; Blue - BHPS
SCOTLAND

Smoking: Prevalence and RII

Prevalence

Year


Red - SHS; Blue - BHPS
SCOTLAND

Smoking: Prevalence and RII

Year

Prevalence

RII


Red - SHS; Blue - BHPS
SCOTLAND

Smoking: Prevalence and RII

Red - SHS; Blue - BHPS
SCOTLAND

Smoking: Prevalence and RII

Red - SHS; Blue - BHPS
ENGLAND

Smoking: Prevalence and RII

Prevalence

Year

Red - HSE; Blue - BHPS
ENGLAND

Smoking: Prevalence and RII

Red - HSE; Blue - BHPS
ENGLAND

Smoking: Prevalence and RII

Year

Prevalence

RII

Red - HSE; Blue - BHPS
ENGLAND

Smoking: Prevalence and RII

Year


Prevalence

.24 .26 .28 .3 .32 .34

RII

3 4 5 6 7

Red - HSE; Blue - BHPS
NORTHERN IRELAND
Smoking: Prevalence and RII

Red - NIHS; Blue - BHPS; Orange - CHS
NORTHERN IRELAND

Smoking: Prevalence and RII

Prevalence

Year


Red - NIHS; Blue - BHPS; Orange - CHS
NORTHERN IRELAND

Smoking: Prevalence and RII

Year

Prevalence

R II


Red - NIHS; Blue - BHPS; Orange - CHS
NORTHERN IRELAND

Smoking: Prevalence and RII

Prevalence

Year


RII

Red - NIHS; Blue - BHPS; Orange - CHS
NORTHERN IRELAND

Smoking: Prevalence and RII

Year

Prevalence
0.2   0.25  0.3   0.35

RII
2     4     6     8     10

Red - NIHS; Blue - BHPS; Orange - CHS
NORTHERN IRELAND
Smoking: Prevalence and RII

Year

Prevalence
.2  .25  .3  .35

RII
2  4  6  8  10

Red - NIHS; Blue - BHPS; Orange - CHS
NORTHERN IRELAND

Smoking: Prevalence and RII

Prevalence

Year


RII

Red - NIHS; Blue - BHPS; Orange - CHS
NORTHERN IRELAND
Smoking: Prevalence and RII

Year
1990
1995
2000
2005
2010

Prevalence
0.2
0.25
0.3
0.35

RII
2
4
6
8
10

Red - NIHS; Blue - BHPS; Orange - CHS
BHPS AND CHS

Smoking: Prevalence and RII

Year


Prevalence

Red - Wales; Blue - Scotland; Orange - England; Green - N. Ireland
Wales: RII points and fitted lines

Scotland: RII points and fitted lines

England: RII points and fitted lines

N. Ireland: RII points and fitted lines

Ns by year and nation

NS-SEC derivation by year and nation

Fitted line regression results
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