

APPENDIX 1. RELATIVE RISKS (WITH 95% CONFIDENCE INTERVALS) BY AREA CHARACTERISTIC, CANCER SITE AND SEX

<i>Bold: Statistically significant result (p<0.05)</i>		NMSC-males	NMSC-females	breast-females	colorectal-males	colorectal-females	lung-males	lung-females	prostate-males
AGE-ADJUSTED ONLY									
Country	Rol	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	NI	0.87 (0.84,0.89)	0.85 (0.82,0.87)	1.01 (0.98,1.03)	0.97 (0.94,1.00)	1.03 (1.00,1.07)	1.11 (1.06,1.16)	1.07 (1.01,1.13)	0.71 (0.69,0.74)
MUTUALLY ADJUSTED									
Country	Rol	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	NI	0.81 (0.78,0.83)	0.77 (0.75,0.80)	0.97 (0.95,1.00)	0.92 (0.89,0.96)	0.98 (0.95,1.02)	0.96 (0.92,1.00)	0.92 (0.88,0.97)	0.70 (0.68,0.73)
	<1 p/ha	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Population density	1-15 p/ha	1.10 (1.06,1.14)	1.11 (1.07,1.15)	1.05 (1.02,1.08)	1.07 (1.03,1.12)	1.01 (0.97,1.06)	1.25 (1.19,1.31)	1.35 (1.27,1.44)	0.97 (0.93,1.01)
	>15 p/ha	1.13 (1.10,1.17)	1.23 (1.19,1.27)	1.09 (1.05,1.12)	1.14 (1.09,1.18)	1.04 (1.00,1.09)	1.54 (1.47,1.61)	1.74 (1.65,1.84)	0.94 (0.90,0.97)
	Q1 - lowest	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Q2	1.00 (0.96,1.03)	1.00 (0.96,1.04)	1.00 (0.96,1.03)	1.05 (1.01,1.10)	1.02 (0.97,1.07)	1.07 (1.01,1.13)	1.06 (0.98,1.14)	1.03 (0.99,1.07)
Unemployment	Q3	0.95 (0.92,0.99)	1.02 (0.98,1.06)	0.97 (0.94,1.01)	1.08 (1.03,1.13)	1.00 (0.95,1.06)	1.07 (1.01,1.14)	1.12 (1.04,1.21)	0.99 (0.95,1.03)
	Q4	0.97 (0.93,1.00)	1.01 (0.97,1.05)	0.99 (0.96,1.03)	1.09 (1.04,1.14)	1.00 (0.95,1.05)	1.24 (1.17,1.32)	1.31 (1.21,1.41)	1.00 (0.96,1.04)
	Q5 - highest	0.94 (0.90,0.98)	0.99 (0.94,1.03)	0.96 (0.92,0.99)	1.11 (1.05,1.17)	1.02 (0.96,1.08)	1.40 (1.32,1.49)	1.45 (1.34,1.57)	0.98 (0.93,1.03)
	Q1 - lowest	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Q2	0.90 (0.87,0.94)	0.92 (0.88,0.96)	0.93 (0.90,0.97)	1.02 (0.97,1.07)	0.99 (0.94,1.04)	1.20 (1.13,1.28)	1.09 (1.01,1.17)	0.94 (0.89,0.98)
Education (no degree)	Q3	0.89 (0.85,0.92)	0.86 (0.82,0.90)	0.91 (0.88,0.95)	0.98 (0.94,1.03)	0.98 (0.93,1.04)	1.17 (1.10,1.24)	1.12 (1.04,1.21)	0.89 (0.85,0.94)
	Q4	0.86 (0.82,0.90)	0.85 (0.81,0.89)	0.91 (0.88,0.95)	0.97 (0.92,1.02)	0.97 (0.91,1.03)	1.26 (1.18,1.34)	1.17 (1.08,1.26)	0.88 (0.84,0.92)
	Q5 - highest	0.79 (0.76,0.83)	0.80 (0.77,0.84)	0.88 (0.85,0.92)	0.99 (0.94,1.04)	0.96 (0.90,1.02)	1.32 (1.24,1.41)	1.23 (1.14,1.33)	0.83 (0.79,0.88)
	Q1 - lowest	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Q2	1.02 (0.99,1.06)	1.05 (1.01,1.10)	1.02 (0.99,1.06)	1.08 (1.03,1.13)	1.12 (1.06,1.19)	1.01 (0.96,1.07)	1.07 (0.99,1.15)	1.04 (1.00,1.08)
Elderly (75+) living alone	Q3	1.05 (1.01,1.09)	1.11 (1.06,1.15)	1.03 (0.99,1.06)	1.12 (1.07,1.18)	1.17 (1.11,1.24)	1.09 (1.03,1.15)	1.07 (0.99,1.15)	1.08 (1.04,1.13)
	Q4	1.05 (1.01,1.09)	1.10 (1.06,1.15)	1.04 (1.00,1.08)	1.08 (1.03,1.13)	1.21 (1.15,1.28)	1.03 (0.97,1.09)	1.03 (0.96,1.11)	1.07 (1.03,1.12)
	Q5 - highest	1.00 (0.97,1.05)	1.06 (1.02,1.11)	1.04 (1.00,1.08)	1.10 (1.05,1.16)	1.19 (1.12,1.26)	1.17 (1.10,1.24)	1.09 (1.01,1.17)	1.01 (0.96,1.05)

p/ha= persons per hectare

Appendix 1 (continued). Relative risks (with 95% confidence intervals) by area characteristic, cancer site and sex

AGE-ADJUSTED ONLY		NHL-males	NHL-females	stomach-males	stomach-females	melanoma-males	melanoma-females	bladder-males	bladder-females
Country	Roi	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	NI	1.04 (0.98,1.10)	1.14 (1.08,1.22)	1.06 (0.99,1.12)	1.01 (0.94,1.09)	0.92 (0.85,0.99)	0.86 (0.81,0.92)	0.92 (0.87,0.97)	0.86 (0.79,0.93)
MUTUALLY ADJUSTED									
Country	Roi	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	NI	1.03 (0.96,1.10)	1.15 (1.07,1.23)	1.01 (0.94,1.08)	0.95 (0.87,1.03)	0.85 (0.79,0.92)	0.82 (0.77,0.88)	0.83 (0.78,0.88)	0.79 (0.72,0.87)
	<1 p/ha	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Population density	1-15 p/ha	0.99 (0.92,1.07)	0.95 (0.88,1.03)	1.15 (1.07,1.25)	1.06 (0.96,1.16)	1.20 (1.10,1.31)	0.99 (0.92,1.07)	1.18 (1.10,1.27)	1.15 (1.03,1.29)
	>15 p/ha	1.05 (0.98,1.13)	1.04 (0.97,1.13)	1.36 (1.27,1.46)	1.19 (1.08,1.30)	1.08 (0.99,1.18)	1.06 (0.98,1.14)	1.30 (1.21,1.39)	1.31 (1.17,1.46)
Unemployment	Q1 - lowest	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Q2	1.07 (0.98,1.16)	0.99 (0.91,1.09)	1.06 (0.97,1.17)	1.02 (0.91,1.15)	1.05 (0.95,1.16)	0.91 (0.84,0.99)	1.01 (0.93,1.09)	0.99 (0.87,1.13)
	Q3	1.04 (0.95,1.14)	1.01 (0.92,1.11)	1.07 (0.98,1.18)	1.01 (0.90,1.14)	0.93 (0.83,1.03)	0.86 (0.79,0.94)	1.01 (0.93,1.10)	1.02 (0.89,1.16)
	Q4	1.00 (0.91,1.10)	0.96 (0.87,1.06)	1.12 (1.02,1.23)	1.10 (0.97,1.24)	0.91 (0.82,1.02)	0.88 (0.81,0.97)	1.05 (0.97,1.15)	1.01 (0.88,1.16)
	Q5 - highest	0.99 (0.90,1.10)	0.95 (0.85,1.06)	1.24 (1.12,1.37)	1.24 (1.09,1.41)	0.84 (0.74,0.95)	0.77 (0.69,0.85)	1.10 (1.00,1.21)	1.13 (0.98,1.31)
Education (no degree)	Q1 - lowest	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Q2	1.00 (0.91,1.09)	1.00 (0.91,1.10)	1.09 (0.99,1.20)	1.07 (0.94,1.20)	0.81 (0.73,0.90)	0.90 (0.82,0.98)	0.97 (0.89,1.06)	1.03 (0.90,1.17)
	Q3	0.96 (0.87,1.05)	0.91 (0.83,1.01)	1.09 (0.99,1.21)	1.07 (0.94,1.21)	0.73 (0.65,0.81)	0.83 (0.75,0.91)	0.96 (0.88,1.05)	1.03 (0.89,1.18)
	Q4	0.99 (0.89,1.09)	0.96 (0.86,1.07)	1.15 (1.04,1.28)	1.12 (0.98,1.27)	0.75 (0.67,0.85)	0.78 (0.71,0.86)	0.93 (0.85,1.02)	0.91 (0.78,1.05)
	Q5 - highest	0.97 (0.88,1.08)	0.94 (0.84,1.05)	1.27 (1.14,1.40)	1.29 (1.14,1.47)	0.66 (0.58,0.75)	0.71 (0.64,0.79)	0.98 (0.89,1.08)	1.15 (0.99,1.33)
Elderly (75+) living alone	Q1 - lowest	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Q2	0.98 (0.90,1.07)	1.05 (0.96,1.16)	1.05 (0.96,1.15)	1.13 (1.00,1.27)	1.07 (0.96,1.19)	1.09 (1.00,1.19)	1.06 (0.98,1.16)	1.14 (1.00,1.31)
	Q3	1.02 (0.93,1.11)	1.05 (0.95,1.16)	1.10 (1.00,1.21)	1.26 (1.12,1.43)	1.10 (0.99,1.23)	1.08 (0.99,1.18)	1.10 (1.01,1.20)	1.13 (0.99,1.30)
	Q4	1.02 (0.93,1.11)	1.09 (0.99,1.20)	1.05 (0.95,1.15)	1.24 (1.11,1.40)	1.18 (1.06,1.31)	1.13 (1.03,1.24)	1.15 (1.06,1.25)	1.16 (1.01,1.32)
	Q5 - highest	1.02 (0.93,1.13)	1.00 (0.90,1.11)	1.07 (0.97,1.18)	1.26 (1.11,1.43)	1.06 (0.94,1.19)	1.05 (0.95,1.16)	1.19 (1.08,1.30)	1.18 (1.02,1.36)

p/ha= persons per hectare

Appendix 1 (continued). Relative risks (with 95% confidence intervals) by area characteristic, cancer site and sex

AGE-ADJUSTED ONLY		head & neck—males	head & neck—females	leukaemia—males	leukaemia—females	pancreas—males	pancreas—females	kidney—males	kidney—females
Country	Rol	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	NI	1.05 (0.99,1.12)	1.21 (1.10,1.32)	0.77 (0.72,0.82)	0.83 (0.76,0.89)	0.89 (0.82,0.96)	0.78 (0.72,0.84)	0.95 (0.89,1.02)	1.04 (0.96,1.13)
MUTUALLY ADJUSTED									
Country	Rol	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	NI	0.90 (0.84,0.97)	1.13 (1.03,1.26)	0.75 (0.70,0.81)	0.79 (0.73,0.87)	0.85 (0.79,0.93)	0.75 (0.69,0.82)	0.92 (0.85,0.99)	1.03 (0.93,1.13)
Population density	<1 p/ha	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	1-15 p/ha	1.20 (1.11,1.30)	1.08 (0.96,1.22)	0.96 (0.89,1.04)	0.98 (0.89,1.08)	0.96 (0.88,1.06)	1.07 (0.98,1.18)	1.06 (0.97,1.15)	1.10 (0.99,1.23)
	>15 p/ha	1.53 (1.42,1.64)	1.29 (1.15,1.45)	0.94 (0.86,1.01)	0.99 (0.90,1.09)	0.93 (0.85,1.02)	1.06 (0.97,1.17)	1.05 (0.96,1.14)	1.13 (1.01,1.26)
Unemployment	Q1 - lowest	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Q2	0.97 (0.88,1.07)	1.09 (0.94,1.26)	0.94 (0.86,1.03)	0.94 (0.84,1.05)	1.02 (0.91,1.14)	0.99 (0.88,1.10)	1.03 (0.93,1.14)	1.17 (1.03,1.33)
	Q3	1.08 (0.98,1.19)	1.10 (0.95,1.28)	0.94 (0.86,1.03)	0.96 (0.85,1.07)	1.05 (0.94,1.18)	1.01 (0.90,1.13)	1.00 (0.90,1.11)	1.08 (0.95,1.24)
	Q4	1.21 (1.09,1.33)	1.25 (1.07,1.45)	0.94 (0.85,1.03)	0.96 (0.86,1.09)	1.14 (1.01,1.27)	1.01 (0.90,1.13)	1.15 (1.04,1.28)	1.10 (0.96,1.27)
	Q5 - highest	1.42 (1.29,1.58)	1.49 (1.27,1.74)	0.93 (0.83,1.03)	0.96 (0.85,1.10)	1.15 (1.02,1.31)	1.03 (0.91,1.16)	1.02 (0.91,1.14)	1.14 (0.99,1.33)
Education (no degree)	Q1 - lowest	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Q2	1.08 (0.98,1.20)	1.01 (0.87,1.16)	0.95 (0.86,1.06)	1.02 (0.90,1.15)	0.94 (0.83,1.06)	1.08 (0.96,1.21)	1.06 (0.95,1.18)	1.11 (0.97,1.27)
	Q3	1.10 (1.00,1.22)	0.99 (0.85,1.15)	0.99 (0.89,1.10)	1.04 (0.92,1.18)	0.94 (0.83,1.06)	1.09 (0.97,1.23)	0.96 (0.86,1.07)	1.09 (0.95,1.25)
	Q4	1.06 (0.95,1.18)	0.95 (0.81,1.11)	0.99 (0.89,1.10)	0.96 (0.85,1.10)	0.93 (0.82,1.06)	1.09 (0.96,1.23)	0.99 (0.88,1.11)	0.96 (0.83,1.12)
	Q5 - highest	1.09 (0.98,1.21)	1.03 (0.88,1.21)	1.00 (0.89,1.12)	0.99 (0.87,1.14)	0.93 (0.81,1.05)	1.22 (1.07,1.38)	0.97 (0.86,1.09)	1.04 (0.90,1.22)
Elderly (75+) living alone	Q1 - lowest	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Q2	0.98 (0.89,1.08)	0.98 (0.84,1.13)	1.09 (0.99,1.20)	1.06 (0.94,1.19)	1.04 (0.92,1.16)	1.07 (0.95,1.20)	1.10 (0.99,1.22)	1.12 (0.98,1.27)
	Q3	1.05 (0.96,1.16)	1.02 (0.89,1.18)	1.09 (0.99,1.20)	1.06 (0.95,1.20)	1.10 (0.98,1.23)	1.13 (1.01,1.26)	1.06 (0.96,1.18)	1.15 (1.01,1.32)
	Q4	1.06 (0.96,1.16)	0.99 (0.85,1.14)	1.14 (1.03,1.25)	1.05 (0.93,1.18)	1.08 (0.96,1.21)	1.08 (0.97,1.21)	1.09 (0.98,1.21)	1.03 (0.90,1.18)
	Q5 - highest	1.15 (1.04,1.27)	0.97 (0.83,1.12)	1.17 (1.05,1.29)	1.14 (1.00,1.29)	1.13 (1.00,1.27)	1.16 (1.03,1.31)	1.11 (0.99,1.24)	1.00 (0.87,1.16)

p/ha= persons per hectare

Appendix 1 (continued). Relative risks (with 95% confidence intervals) by area characteristic, cancer site and sex

AGE-ADJUSTED ONLY		oesophagus–males	oesophagus–females	ovary–females	brain–males	brain–females	corpus uteri–females	cervix uteri –females
Country	Rol	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	NI	1.02 (0.96,1.10)	0.92 (0.84,1.00)	1.00 (0.95,1.06)	0.90 (0.83,0.97)	0.80 (0.73,0.88)	1.11 (1.05,1.18)	0.90 (0.84,0.97)
MUTUALLY ADJUSTED								
Country	Rol	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	NI	0.97 (0.90,1.05)	0.86 (0.78,0.95)	1.01 (0.95,1.07)	0.91 (0.83,1.00)	0.82 (0.74,0.91)	1.12 (1.05,1.19)	0.85 (0.78,0.93)
Population Density	<1 p/ha	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	1-15 p/ha	1.07 (0.98,1.17)	1.10 (0.98,1.24)	1.02 (0.96,1.10)	1.01 (0.91,1.11)	1.03 (0.92,1.16)	0.97 (0.90,1.05)	1.39 (1.26,1.52)
	>15 p/ha	1.21 (1.11,1.31)	1.21 (1.08,1.35)	1.02 (0.96,1.09)	1.03 (0.94,1.14)	1.13 (1.01,1.26)	0.94 (0.87,1.01)	1.48 (1.35,1.62)
Unemployment	Q1 - lowest	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Q2	1.10 (0.99,1.22)	0.95 (0.84,1.09)	1.03 (0.95,1.12)	1.08 (0.96,1.21)	1.03 (0.91,1.18)	1.03 (0.94,1.12)	1.01 (0.90,1.13)
	Q3	1.10 (0.99,1.22)	0.95 (0.83,1.08)	1.09 (1.00,1.18)	1.10 (0.98,1.23)	1.03 (0.90,1.18)	1.03 (0.94,1.13)	1.06 (0.94,1.19)
	Q4	1.15 (1.03,1.28)	0.94 (0.82,1.08)	1.05 (0.96,1.14)	0.98 (0.86,1.10)	0.90 (0.78,1.04)	1.03 (0.93,1.13)	1.17 (1.04,1.32)
	Q5 - highest	1.06 (0.94,1.19)	0.91 (0.79,1.06)	0.93 (0.84,1.02)	0.97 (0.85,1.11)	0.93 (0.80,1.08)	0.99 (0.90,1.10)	1.21 (1.06,1.37)
Education (no degree)	Q1 - lowest	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Q2	1.09 (0.98,1.22)	1.14 (0.99,1.31)	1.03 (0.94,1.11)	0.98 (0.87,1.10)	0.97 (0.84,1.12)	1.01 (0.92,1.11)	1.22 (1.08,1.37)
	Q3	1.01 (0.90,1.14)	1.08 (0.93,1.24)	1.03 (0.94,1.13)	0.94 (0.83,1.07)	1.07 (0.93,1.24)	0.98 (0.89,1.08)	1.29 (1.14,1.46)
	Q4	1.10 (0.98,1.24)	1.07 (0.92,1.24)	1.02 (0.93,1.12)	0.94 (0.82,1.07)	1.08 (0.93,1.26)	1.05 (0.94,1.16)	1.40 (1.23,1.59)
	Q5 - highest	1.09 (0.97,1.23)	1.12 (0.96,1.31)	1.06 (0.97,1.17)	0.98 (0.85,1.12)	1.05 (0.90,1.23)	1.00 (0.90,1.11)	1.66 (1.47,1.88)
Elderly (75+) living alone	Q1 - lowest	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Q2	1.07 (0.96,1.19)	1.12 (0.97,1.29)	0.96 (0.88,1.04)	0.99 (0.89,1.11)	0.98 (0.86,1.12)	1.00 (0.91,1.10)	0.91 (0.82,1.02)
	Q3	1.15 (1.04,1.29)	1.14 (0.99,1.32)	0.97 (0.89,1.05)	0.98 (0.87,1.10)	1.02 (0.89,1.16)	1.04 (0.95,1.14)	0.97 (0.87,1.09)
	Q4	1.16 (1.04,1.29)	1.23 (1.07,1.42)	1.00 (0.92,1.08)	1.03 (0.92,1.16)	1.03 (0.90,1.18)	1.05 (0.96,1.16)	0.95 (0.85,1.06)
	Q5 - highest	1.21 (1.08,1.36)	1.20 (1.04,1.39)	1.01 (0.93,1.11)	0.97 (0.86,1.10)	0.97 (0.83,1.12)	1.05 (0.95,1.16)	1.09 (0.97,1.22)

p/ha= persons per hectare

APPENDIX 2. ELECTORAL DIVISION TABLES

Table A2.1 "Confidential" electoral divisions which were merged for census purposes, ROI

county	confidential ED code	merged with	new code	component EDs	year of merge
Laois	8046 Capard	8045 Brisha	8701	Brisha(045)/Capard(046)	1996
	9035 Newgrove	9024 Firry	9701	Firry(024)/Newgrove(035)	1996
Offaly	12034 Ballaghassaan	12043 Esker	12701	Esker(043)/Ballaghassaan(034)	2002
	13085 Lackan	13054 Ballinalack	13701	Ballinalack(054)/Lackan(085)	2006
Westmeath	16008 Castletown	16014 Noughaval	16703	Noughaval(014)/Castletown(008)	2006
	16017 Ballyeighter	16020 Glenroe	16701	Glenroe(020)/Ballyeighter(017)	1996
	16128 Cahermurphy	16123 Corlea	16704	Corlea(123)/Cahermurphy(128)	2006
	16133 Inishcaltra South	16132 Inishcaltra North	16702	Inishcaltra North(132)/Inishcaltra South(133)	1996
Cork	18046 Whiddy	18033 Bantry Rural	18701	Bantry Rural(033)/Whiddy(046)	1996
Kerry	19020 Máistir Gaoithe	19009 Ceannúig	19701	Ceannúig(009)/Máistir Gaoithe(020)	2006
	19011 Daoire Ianna	19014 Cloon	19702	Cloon(014)/Daoire Ianna(011)	2006
Tipperary N	22045 Lackagh	22037 Greenhall	22701	Greenhall(037)/Lackagh(045)	1996
Tipperary S	23136 Killaloe	23137 Kilsheelan	23701	Kilsheelan(137)/Killaloe(136)	2006
Waterford	24006 Ballynaneashagh	24002 Ballybeg South	24701	Ballybeg South(002)/Ballynaneashagh(006)	1996
	25074 Kilbarry (part)	25070 Ballynakill (part)	25701	Ballynakill (part)(070)/Kilbarry (part)(074)	***2002
	27022 Bencorr*	27027 Derrycunlagh*	27703	Bencorr(022)/Derrycunlagh(027)/Derrylea(028)	2002/ 2006
Galway	27126 Loughatorick	27028 Derrylea*	27702	Marblehill(129)/Loughatorick(126)	2002
	28011 Stralongford	27129 Marblehill	28704	Greaghlass(007)/Stralongford(011)	2006
	28017 Drumreilly West	28007 Greaghlass	28705	Drumreilly West(017)/Drumreilly East(016)	2006
		28016 Drumreilly East			
		28027 Aghalateeve**			
	28032 Aghavoghil**	28028 Aghanlish**	28703	Aghalateeve(027)/Aghanlish(028)/Melvin(029)/Aghavoghil(032)	2002/ 2006
Leitrim		28029 Melvin**			
		28041 Garvagh			
Mayo	28034 Arigna	28041 Garvagh	28701	Garvagh(041)/Arigna(034)	1996
	29065 Sheskin	29058 Glenco	29701	Glenco(058)/Sheskin(065)	1996
	29130 Bundorragha	29150 Owennadornaun	29702	Owennadornaun(150)/Bundorragha(130)	1996
Roscommon	30048 Mantua	30046 Lisgarve	30701	Lisgarve(046)/Mantua(048)	2006
	30025 Altagowlan	30047 Lough Allen	30702	Lough Allen(047)/Altagowlan(025)	2006
Sligo	31027 Mullagheruse	31031 Templeboy South	31701	Templeboy South(031)/Mullagheruse(027)	2002
	31069 Carrownaskeagh	31067 Branchfield	31702	Branchfield(067)/Carrownaskeagh(069)	2006
	31071 Cloonacool	31078 Loughill	31703	Loughill(078)/Cloonacool(071)	2006
	32028 Tircahan	32025 Pedara Vohera	32703	Pedara Vohera(025)/Tircahan(028)	2002
Cavan	32018 Benbrack	32027 Templeport	32704	Templeport(027)/Benbrack(018)	2006
	32082 Derrynananta	32084 Dunmakeever	32701	Dunmakeever(084)/Derrynananta(082)	1996
	32087 Teebane	32086 Kinninagh	32702	Kinninagh(086)/Teebane(087)	1996

* Derrycunlagh merged with Bencorr in 2002, Derrycunlagh merged with Derrylea in 2006

** Aghavoghil merged with Aghalateeve in 2002, Aghavoghil merged with Melvin in 2006 and Aghalateeve merged with Aghanlish in 2006

***Not confidential in 2006

Table A2.2 Urban areas with population splits altered between 1996 and 2002 censuses

county	ED number	ED name	1996 census	2002 census	combined into	component eds
Carlow	1001	Carlow Urban Area	10220	4963	Carlow Urban Area	Carlow Urban Area (001),
	1019	Carlow Rural (Pt.)	3146	11238		Carlow Rural (pt.) (019)
Meath	11001	Ceannanus Mor Urban	2152	2362	Ceannanus Mor Urban	Ceannanus Mor Urban (001),
	11026	Ceannanus Mor Rural (pt.)	2019	2800		Ceannanus Mor Rural (pt.) (026)
	11002	Navan Urban	3447	2802	Navan Urban	Navan Urban (002),
	11055	Navan Rural (pt.)	11732	18624		Navan Rural (pt.) (055)
	11003	Trim Urban	1740	1204	Trim Urban	Trim Urban (003),
	11092	Trim Rural (pt.)	3775	5685		Trim Rural (pt.) (092)
Kerry	19003	Tralee Urban Area	19056	6311	Tralee Urban Area	Tralee Urban Area (003),
	19165	Tralee Rural (pt.)	860	15433		Tralee Rural (pt.) (165)
Donegal	33003	L'kenney Urban	7606	2478	L'kenney Urban	L'kenney Urban (003),
	33105	L'kenney Rural (pt.)	2341	9289		L'kenney Rural (pt.) (105)
Monaghan	34002	C'blayne Urban Area	1884	960	C'blayne Urban Area	C'blayne Urban Area (002),
	34027	C'blayne Rural (pt.)	1889	2980		C'blayne Rural (pt.) (027)
	34004	Monaghan Urban Area	5628	2032	Monaghan Urban Area	Monaghan Urban Area (004),
	34063	Monaghan Rural (pt.)	1207	4969		Monaghan Rural (pt.) (063)

(pt.) signifies that only part of the ED is included

Table A2.3 Urban areas surrounded by a single ED (rural part)

county	ED number	ED name	combined into	component EDs
Fingal	4003	Balbriggan Urban	Balbriggan Urban	4003 Balbriggan Urban (003), Balbriggan Rural (002)
	4002	Balbriggan Rural		
	4034	Skerries	Skerries	4034 Skerries (034), Holmpatrick (023)
	4023	Holmpatrick		
Kildare	6003	Naas Urban	Naas Urban	6003 Naas Urban (003), Naas Rural (079)
	6079	Naas Rural		
Kilkenny	7005	Callan Urban	Callan Urban	7005 Callan Urban (005), Callan Rural (004)
	7004	Callan Rural		
Laois	8072	Portlaoighise Urban	Portlaoighise Urban	8072 Portlaoighise Urban (072), Portlaoighise Rural (071)
	8071	Portlaoighise Rural		
Longford	9027	Granard Urban	Granard Urban	9027 Granard Urban (027), Granard Rural (026)
	9026	Granard Rural		
Louth	10009	Ardee Urban	Ardee Urban	10009 Ardee Urban (009), Ardee Rural (008)
	10008	Ardee Rural		
Wexford	14001	Enniscorthy Urban	Enniscorthy Urban	14001 Enniscorthy Urban (001), Enniscorthy Rural pt. (021)
	14021	Enniscorthy Rural (pt.)		
Wicklow	15007	Wicklow Urban	Wicklow Urban	15007 Wicklow Urban (007), Wicklow Rural (066)
	15066	Wicklow Rural		
Cork	18002	Cobh Urban	Cobh Urban	18002 Cobh Urban (002), Cobh Rural (085)
	18085	Cobh Rural		
	18003	Fermoy Urban	Fermoy Urban	18003 Fermoy Urban (003), Fermoy Rural (131)
	18131	Fermoy Rural		
	18004	Kinsale Urban	Kinsale Urban	18004 Kinsale Urban (004), Kinsale Rural (189)
	18189	Kinsale Rural		
	18008	Midleton Urban	Midleton Urban	18008 Midleton Urban (008), Midleton Rural (260)
	18260	Midleton Rural		
	18009	Skibbereen Urban	Skibbereen Urban	18009 Skibbereen Urban (009), Skibbereen Rural (306)
	18306	Skibbereen Rural		
18010	Youghal Urban	Youghal Urban	18010 Youghal Urban (010), Youghal Rural pt.(325)	
18325	Youghal Rural (pt.)			
Kerry	19002	Listowel Urban	Listowel Urban	19002 Listowel Urban (002), Listowel Rural (118)
	19118	Listowel Rural		
	19033	Dingle	Dingle	19033 Dingle (033), Glin (036)
	19036	Glin		
Limerick	21102	Newcastle Urban	Newcastle Urban	21102 Newcastle Urban (102), Newcastle Rural (101)
	21101	Newcastle Rural		
Tipperary North	22004	Thurles Urban	Thurles Urban	22004 Thurles Urban (004), Thurles Rural (079)
	22079	Thurles Rural		
Tipperary South	23084	Cashel Urban	Cashel Urban	23084 Cashel Urban (084), Cashel Rural (096)
	23096	Cashel Rural		
	23104	Fethard	Fethard	23104 Fethard (104), Peppardstown (115)
	23115	Peppardstown		
Galway	27216	Tuam Urban	Tuam Urban	27216 Tuam Urban (216), Tuam Rural (215)
	27215	Tuam Rural		
	29003	Castlebar Urban	Castlebar Urban	29003 Castlebar Urban (003), Castlebar Rural (074)
	29074	Castlebar Rural		
Roscommon	30031	Boyle Urban	Boyle Urban	30031 Boyle Urban (031), Boyle Rural (030)
	30030	Boyle Rural		
	30106	Roscommon Urban	Roscommon Urban	30106 Roscommon Urban (106), Roscommon Rural (105)
	30105	Roscommon Rural		
Cavan	32001	Cavan Urban	Cavan Urban	32001 Cavan Urban (001), Cavan Rural (048)
	32048	Cavan Rural		
	32051	Cootehill Urban	Cootehill Urban	32051 Cootehill Urban (051), Cootehill Rural (050)
	32050	Cootehill Rural		
Donegal	33001	Buncrana Urban	Buncrana Urban	33001 Buncrana Urban (001), Buncrana Rural (069)
	33069	Buncrana Rural		
Monaghan	34003	Clones Urban Area	Clones Urban	34003 Clones Urban Area (003), Clones Rural (pt.) (036)
	34036	Clones Rural (pt.)		
	34022	Ballybay Urban	Ballybay Urban	34022 Ballybay Urban(022), Ballybay Rural (021)
	34021	Ballybay Rural		

(pt.) signifies that only part of the ED is included

Table A2.4 Drogheda, Dundalk and Wexford—Population splits not available for 1996 census and altered in 2002

county	ED number	ED name	population		Combined into	Component EDs
			1996 census	2002 census		
Louth	10001	Fair Gate		10852	Drogheda Urban	10001 Fair Gate (001) St. Laurence Gate (002) West Gate (003) St. Peter's (pt.) (041) St. Mary's (pt.) (047)
	10002	St. Laurence Gate		3566		
	10003	West Gate		6412		
	10001/2/3	Drogheda Urban	24460			
	10041	St. Peter's (pt.)	1809	5406		
	10047	St. Mary's (pt)		4738		
	10004	Dundalk Urban No. 1		2490	Dundalk Urban	10004 Dundalk Urban No.1 (004) Dundalk Urban No.2 (005) Dundalk Urban No.3 (006) Dundalk Urban No.4 (007) Castletown(pt.) (023) Dundalk Rural (pt.) (027) Haggardstown(pt.) (030)
	10005	Dundalk Urban No. 2		1064		
	10006	Dundalk Urban No. 3		1430		
	10007	Dundalk Urban No. 4		6527		
	10004/5/6/7	Dundalk Urban	25762			
	10023	Castletown (pt.)	1305	2961		
	10027	Dundalk Rural (pt.)	524	14715		
	10030	Haggardstown (pt.)	4222	4894		
Wexford	14004	Wexford No. 1 Urban		1846	Wexford Urban	14004 Wexford No.1 Urban (004) Wexford No.2 Urban (005) Wexford No.3 Urban (006) Wexford Rural (pt.) (123)
	14005	Wexford No. 2 Urban		4823		
	14006	Wexford No. 3 Urban		1351		
	14004/5/6	Wexford Urban	9533			
	14123	Wexford Rural (pt.)	6747	9761		

(pt.) signifies that only part of the ED is included

Table A2.5 Islands and headlands joined artificially to mainland EDs or wards

county	name of ED or ward	ED/ward no.	mapping code	true neighbours*	additional neighbours*	additional neighbours*
Cork	Sheepshead	18045	M18045	Seefin (18044)	Glanlough (18038)	
	Templebreedy	18195	M18195	Carrigaline (18183)	Carrigaline (18082)	
	Myross	18304	M18304	Castlehaven North (18292)	Shreelane (18305)	
	Crookhaven	18312	M18312	Goleen (18315)	Toormore (18319)	
Kerry	Kerryhead	19149	M19149	Ballyheige (19132)	Ballynorrig (19134)	
	Knockboy	27033	M27033	Skannive (27039)	Owengowla (27035)	
Galway	Ballynacourty	27043	M27043	Clarinbridge (27049)	Drumacoo (27089)	
	Doorus	27088	M27088	Kinvarra (27097)	Abbey (16006)	
	Lettermore	27158	M27158	Crumpaun (27152)	Gorumna (27154)	
	An Geata Mor Theas	29052	M29052	An Geata Mor Thuaidh (29051)	Belmullet (29055)	
Mayo	Knockadaff	29060	M29060	Muingnabo (29062)	Glenamoy (29056)	
	Achill	29124	M29124	29136 / 29152	Ballycrocy South (29129)	
	Corraun	29133	M29133	Newport West (29149)	Ballycrocy South (29129)	Doega (29136)
	Doega	29136	M29136	29124 / 29152	Corraun Achill (29133)	
	Ballycrocy South	29129	M29129	29128 / 29149 / 29153 / 29701	Achill (29124)	Corraun Achill (29133)
	Lissadill West	31058	M31058	Lissadill East (31056)	Lissadill North (31057)	
	Ardmalin	33066	M33066	Malin (33087)	Carthage (33072)	
	Fanad West	33115	M33115	Fanad North (33114)	Rosnakill (33127)	
Ards	Rosguill	33126	M33126	Carrickart (33111)	Cranford (33113)	
	Portaferry	95BB20	M19982	Kircubbin (95BB15)	Portavogie(95BB21)	
Larne	Island Magee	95QQ13	M19932	Blackhead (95HH01)	Whitehead (95HH16)	
	Whiddy	18046	M18701	Already merged — confidential ED		
Cork	Bear	18048	M18048	Killaconenagh (18052)	Curryglass (18050)	
	Valencia	19025	M19025	Portmagee (19022)	Teeranearagh (19024)	
Galway	Inishbofin	27032	M27032	Cleggan (27024)	Sillerna (27038)	
	Inishmore	27053	M27053	Gorumna (27154)	Killilagh (16058)	
	Gorumna	27154	M27154	Inishmore (27053)	Lettermore (27158)	
Mayo	Clare Island	29131	M29131	Emlagh (29138)	Aillemore (29127)	
	Aran	33040	M33040	Rutland (33064)	Maghery (33061)	

*"True neighbours" are EDs which share a land border with the ED in column 3; "additional neighbours" are those which are geographically close or separated from it by water. True neighbours were given a weight of 1 in WinBugs; additional neighbours a weight of 0.

APPENDIX 3. SUMMARY STATISTICS FOR EACH CANCER SITE

Table A3.1 Summary statistics for each cancer site mapped: numbers of cases per ED or ward, ranges of SIRs and smoothed RRs for 1995-2007

cancer site	number of cases per ED/ward				SIR (min-max)		smoothed RR (min-max)	
	mean		(min-max)		females	males	females	males
non-melanoma cancer of the skin	12.5	14.2	(0–315)	(0–333)	(0–6)	(0–5)	(0.6–1.9)	(0.6–2.1)
breast	9.8	—	(0–228)	—	(0–6)	—	(0.8–1.2)	—
colorectal	4.3	5.4	(0–89)	(0–124)	(0–9)	(0–5)	(0.8–1.2)	(0.8–1.4)
lung	3.3	5.3	(0–95)	(0–126)	(0–8)	(0–7)	(0.4–2.7)	(0.4–3.1)
prostate	—	8.4	—	(0–181)	—	(0–5)	—	(0.6–1.6)
non-Hodgkin's lymphoma	1.2	1.3	(0–26)	(0–30)	(0–22)	(0–13)	(0.9–1.2)	(0.8–1.1)
stomach	0.9	1.5	(0–29)	(0–39)	(0–23)	(0–20)	(0.5–2.0)	(0.6–1.8)
melanoma of the skin	1.4	0.9	(0–32)	(0–21)	(0–16)	(0–12)	(0.7–1.8)	(0.6–2.1)
bladder	0.6	1.6	(0–15)	(0–33)	(0–23)	(0–11)	(0.6–1.6)	(0.7–1.6)
head and neck	0.6	1.4	(0–18)	(0–35)	(0–28)	(0–11)	(0.6–1.9)	(0.6–2.8)
leukaemia	0.8	1.1	(0–16)	(0–32)	(0–30)	(0–13)	(0.9–1.1)	(0.8–1.3)
pancreas	0.9	0.9	(0–26)	(0–24)	(0–24)	(0–17)	(0.8–1.3)	(0.9–1.1)
kidney	0.6	1.0	(0–20)	(0–24)	(0–26)	(0–15)	(0.9–1.1)	(0.9–1.2)
oesophagus	0.6	1.0	(0–12)	(0–28)	(0–48)	(0–17)	(0.6–1.6)	(0.7–1.4)
ovary	1.6	—	(0–29)	—	(0–10)	—	(0.8–1.2)	—
brain and other central nervous system	0.6	0.8	(0–12)	(0–20)	(0–34)	(0–23)	(0.8–1.2)	(1.0–1.1)
corpus uteri	1.3	—	(0–28)	—	(0–16)	—	(0.8–1.3)	—
cervix uteri	1.0	—	(0–27)	—	(0–22)	—	(0.6–2.2)	—

SIR: standardised incidence ratios

RR: relative risk

APPENDIX 4. REGIONS REFERRED TO IN THE ATLAS

Table A4.1 Regions referred to in the atlas

Provinces (Ireland) and constituent counties/district councils							
Connacht	Leinster	Munster	Ulster				
Galway	Carlow	Clare	Antrim	Craigavon	Newry and Mourne		
Mayo	Dublin	Cork	Ards	Derry	Newtownabbey		
Sligo	Kildare	Kerry	Armagh	Donegal	North Down		
Roscommon	Kilkenny	Limerick	Ballymena	Down	Omagh		
Leitrim	Laois	Tipperary	Ballymoney	Dungannon and South Tyrone			
	Longford	Waterford	Banbridge	Fermanagh	Strabane		
	Louth		Belfast	Larne			
	Meath		Carrickfergus	Limavady			
	Offaly		Castlereagh	Lisburn			
	Westmeath		Cavan	Magherafelt			
	Wexford		Coleraine	Monaghan			
	Wicklow		Cookstown	Moyle			
Health and Social Services Boards (NI) and constituent district councils							
Eastern		Northern		Southern		Western	
Ards		Antrim		Armagh		Derry	
Belfast		Ballymena		Banbridge		Fermanagh	
Castlereagh		Ballymoney		Craigavon		Limavady	
Down		Carrickfergus		Dungannon and South Tyrone		Omagh	
Lisburn		Coleraine		Newry and Mourne		Strabane	
NorthDown		Cookstown					
		Larne					
		Magherafelt					
		Moyle					
		Newtownabbey					
HSE regions (RoI) and constituent counties							
Dublin/Mid-Leinster		Dublin/North-east		South		West	
Dublin (part)		Dublin (part)		Carlow		Clare	
Kildare		Cavan		Cork		Donegal	
Laois		Louth		Kerry		Galway	
Longford		Meath		Kilkenny		Leitrim	
Offaly		Monaghan		S Tipperary		Limerick	
Westmeath				Waterford		Mayo	
Wicklow				Wexford		N Tipperary	
						Sligo	
						Roscommon	
Planning (NUTS level 3) regions (RoI) and constituent counties							
Border	Midlands	West	Dublin	Mid-West	Mid-East	South-East	South-West
Louth	Laois	Galway	Dublin	Limerick	Kildare	Wexford	Cork
Leitrim	Longford	Mayo	Dublin	N Tipperary	Meath	Kilkenny	Kerry
Sligo	Offaly	Roscommon		Clare	Wicklow	Carlow	
Cavan	Westmeath					S Tipperary	
Donegal						Waterford	
Monaghan							

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