

**Supplementary Table A. Observed age-standardised brain tumour incidence trends in adults (males and females, 20-59 years old) during increased CT and MRI use (1982-1992), advances in MRI use (1993-2002) and substantial mobile phone use (2003-2013)**

	Male									Female								
	1982-1992			1993-2002			2003-2013			1982-1992			1993-2002			2003-2013		
	N	APC*	95% CI	N	APC	95% CI	N	APC	95% CI	N	APC	95% CI	N	APC	95% CI	N	APC	95% CI
All	2841	-0.4	(-1.5,0.8)	3207	0.8	(-0.4,2.1)	4035	-0.5	(-1.6,0.5)	1952	0.7	(-0.7,2.1)	2063	0.1	(-1.4,1.6)	2727	-1.2	(-2.4,0.1)
<b>Histology</b>																		
Glioma	2597	0.8	(-0.4,2)	3064	0.7	(-0.5,2)	3857	-0.3	(-1.3,0.8)	1750	1.6	(0.1,3.1)	1926	-0.1	(-1.7,1.5)	2564	-1	(-2.3,0.3)
Glioblastoma	996	1.1	(-0.8,3.1)	1528	3.4	(1.5,5.3)	2083	0.6	(-0.9,2.1)	642	1.7	(-0.7,4.2)	869	0.5	(-1.9,2.9)	1208	1.2	(-0.7,3.2)
Other glioma	1601	0.6	(-0.9,2.2)	1536	-1.7	(-3.4,0)	1774	-1.2	(-2.7,0.3)	1108	1.6	(-0.3,3.5)	1057	-0.5	(-2.6,1.6)	1356	-2.7	(-4.4,-1)
Meningioma	39	-2.8	(-12,7.3)	40	1.5	(-9.1,13.4)	48	-1.2	(-10.3,8.9)	43	1.8	(-7.2,11.7)	70	2.9	(-5.4,11.8)	72	-6.5	(-13.8,1.3)
Other	44	-11.8	(-19.9,-2.8)	36	3.7	(-7.6,16.3)	63	-5.2	(-12.3,2.5)	35	-1.9	(-11.5,8.8)	30	-7.5	(-18.6,5.1)	31	-5.8	(-16.2,5.9)
Unspecified	161	-15.2	(-19.5,-10.8)	67	1.9	(-6.4,10.9)	67	-7.9	(-15.1,0)	124	-10.9	(-15.8,-5.8)	37	9.8	(-2.2,23.2)	60	-1.4	(-9.4,7.4)
<b>Glioma Grade</b>																		
Low	1066	0.4	(-1.5,2.3)	825	-4.1	(-6.4,-1.8)	812	-2.9	(-5,-0.7)	751	2.1	(-0.1,4.5)	593	-3.2	(-5.9,-0.4)	652	-3.5	(-5.9,-1)
High	1179	3.7	(1.9,5.6)	1987	2.9	(1.2,4.5)	2615	-0.3	(-1.6,1)	759	3.8	(1.5,6.1)	1164	1	(-1,3.1)	1596	0.3	(-1.4,2)
Unspecified	352	-7.2	(-10.2,-4.1)	252	1.2	(-3.1,5.7)	430	4.7	(1.5,8)	240	-6.4	(-10.1,-2.6)	169	3.7	(-1.7,9.4)	316	-1.5	(-5.1,2.1)
<b>Glioma Location</b>																		
Frontal	539	6.9	(4,9.8)	802	4.4	(1.9,7.1)	1252	2.9	(1,4.8)	394	9.2	(5.8,12.8)	543	2.7	(-0.3,5.9)	892	3.3	(1,5.6)
Temporal	384	7.5	(4.2,11)	655	3	(0.3,5.9)	856	1.9	(-0.4,4.3)	215	6.9	(2.4,11.6)	327	2.6	(-1.2,6.6)	515	-1.9	(-4.7,1.1)
Parietal	404	6.8	(3.5,10.1)	495	-1.1	(-4.1,2.1)	490	0.2	(-2.8,3.3)	251	5.9	(1.9,10.2)	306	-1.6	(-5.5,2.3)	326	-1.3	(-4.9,2.5)
Other locations	358	3.8	(0.4,7.2)	473	0.6	(-2.5,3.9)	583	-2	(-4.6,0.7)	247	7.2	(3,11.6)	305	0.4	(-3.5,4.4)	406	-1.4	(-4.6,1.8)
Overlapping	167	4.9	(0,10.1)	170	-7.7	(-12.5,-2.6)	217	-2.8	(-7.1,1.7)	131	1.9	(-3.4,7.5)	126	-10.3	(-15.7,-4.4)	157	-1.7	(-6.9,3.7)
Unspecified	745	-11.4	(-13.4,-9.3)	469	-3.2	(-6.3,-0.1)	459	-9.8	(-12.6,-6.9)	512	-10	(-12.4,-7.4)	319	-2.3	(-6,1.6)	268	-11.6	(-15.2,-7.8)

\*APC = Annual percent change

**Supplementary Table B. Observed age-standardised brain tumour incidence trends in adults (males and females, 20-59 years old) after redistribution of unclassified tumours**

	Male									Female								
	1982-1992			1993-2002			2003-2013			1982-1992			1993-2002			2003-2013		
	N	APC*	95% CI	N	APC	95% CI	N	APC	95% CI	N	APC	95% CI	N	APC	95% CI	N	APC	95% CI
All	2841	-0.4	(-1.5,0.8)	3207	0.8	(-0.4,2.1)	4035	-0.5	(-1.6,0.5)	1952	0.7	(-0.7,2.1)	2063	0.1	(-1.4,1.6)	2727	-1.2	(-2.4,0.1)
<b>Histology</b>																		
Glioma	2755	-0.1	(-1.3,1.1)	3131	0.8	(-0.5,2)	3924	-0.4	(-1.5,0.6)	1868	0.8	(-0.6,2.2)	1963	0.1	(-1.5,1.7)	2623	-1	(-2.3,0.3)
Glioblastoma	1059	0.1	(-1.8,2)	1560	3.4	(1.6,5.3)	2118	0.4	(-1,1.9)	687	0.9	(-1.5,3.2)	885	0.6	(-1.7,3)	1235	1.2	(-0.7,3.2)
Other glioma	1699	-0.3	(-1.8,1.2)	1571	-1.7	(-3.4,0)	1806	-1.3	(-2.8,0.2)	1187	0.7	(-1.1,2.5)	1078	-0.3	(-2.4,1.8)	1389	-2.7	(-4.4,-1)
Meningioma	40	-4.1	(-13,5.8)	40	1.5	(-9.1,13.4)	48	-1.2	(-10.3,8.9)	44	0.7	(-8.1,10.4)	70	2.9	(-5.4,11.8)	72	-6.5	(-13.8,1.3)
Other	46	-12.9	(-20.8,-4.1)	36	3.7	(-7.6,16.3)	63	-5.2	(-12.3,2.5)	36	-3.2	(-12.6,7.2)	30	-7.5	(-18.6,5.1)	31	-5.8	(-16.2,5.9)
<b>Glioma Grade</b>																		
Low	1236	-0.8	(-2.5,0.9)	899	-4.1	(-6.3,-1.9)	914	-2.2	(-4.3,-0.2)	871	0.7	(-1.4,2.9)	649	-2.9	(-5.5,-0.3)	745	-3.5	(-5.7,-1.2)
High	1361	2.3	(0.6,4)	2165	2.9	(1.4,4.5)	2943	0.3	(-0.9,1.6)	879	2.5	(0.4,4.6)	1277	1.4	(-0.5,3.4)	1819	0.1	(-1.4,1.7)
<b>Glioma Topography</b>																		
Frontal	827	1.1	(-1.1,3.2)	1013	3	(0.8,5.3)	1515	1.4	(-0.3,3.1)	620	2.9	(0.4,5.5)	706	1.4	(-1.3,4)	1065	1.9	(-0.1,4)
Temporal	591	2	(-0.5,4.7)	827	1.6	(-0.8,4.1)	1036	0.2	(-1.9,2.3)	338	1.4	(-2,4.8)	425	1.3	(-2.1,4.8)	620	-3.4	(-5.9,-0.7)
Parietal	404	6.8	(3.5,10.1)	495	-1.1	(-4.1,2.1)	490	0.2	(-2.8,3.3)	399	0.2	(-2.8,3.3)	399	-3.1	(-6.4,0.3)	390	-2.7	(-6,0.6)
Other locations	556	-1.5	(-4.1,1.1)	599	-0.8	(-3.6,2.1)	710	-3.5	(-5.8,-1)	392	1	(-2.1,4.2)	397	-0.9	(-4.3,2.6)	488	-3	(-5.9,-0.1)

\*APC = Annual percent change