Appendix II Cambridgeshire lung cancer data (observed and expected counts and ward neighbours)

Ward no.	Observed incidence $O(i)$	Expected incidence $E(i)$	Adjacent wards
1	7	3.600	4, 6, 10, 12, 121, 128
2	4	4.500	3, 7, 14, 114
3	2	3.900	2, 8, 9, 14, 102, 109, 114
4	3	4.000	1, 5, 11, 12, 107, 110, 126, 128
5	5	4.800	4, 10, 11, 12, 13
6	5	5.100	1, 7, 8, 10, 14, 121, 128
7	3	3.200	2, 6, 14, 114, 121
8	3	2.200	3, 6, 9, 10, 13, 14
9	1	3.100	3, 8, 13, 97, 102
10	1	3.000	1, 5, 6, 8, 12, 13, 14
11	5	5.200	4, 5, 13, 110
12	5	3.100	1, 4, 5, 10
13	2	4.100	5, 8, 9, 10, 11, 97, 110, 113
14	0	3.700	2, 3, 6, 7, 8, 10
15	1	1.800	19, 30, 128, 130, 131
16	2	3.000	19, 27, 30, 32
17	3	1.500	32
18	1	1.800	20, 22, 26, 29, 31, 34, 40
19	1	1.300	15, 16, 30, 32, 94, 130
20	3	2.300	18, 21, 22, 26, 27
21	4	2.200	20, 22, 27, 28
22	2	3.500	18, 20, 21, 28, 31
23	4	1.800	25, 27
24	2	2.100	28, 29, 31, 61, 103, 133
25	2	1.000	23, 27
26	8	4.000	18, 20
27	3	4.700	16, 20, 21, 23, 25, 28, 30, 131
28	1	1.000	21, 22, 24, 27, 31, 103, 131
29	1	1.800	18, 24, 31, 34, 36, 61
30	0	1.200	15, 16, 19, 27, 131
31	2	1.200	18, 22, 24, 28, 29

(*Continued*)

(Continued)

Ward no.	Observed incidence O(i)	Expected incidence E(i)	Adjacent wards
32	0	1.300	16, 17, 19
33	1	1.300	34, 35, 43, 51, 53, 80, 90
34	2	1.800	18, 29, 33, 35, 36, 40, 53
35	2	1.200	33, 34, 36, 37, 90
36	0	0.800	29, 34, 35, 37, 61, 84
37	3	1.300	35, 36, 84, 90
38	4	2.000	41, 42, 43, 45, 47, 51, 57
39	3	2.900	44, 46, 55, 57
40	1	0.800	18, 34, 45, 53
41	4	5.100	38, 42, 43, 45, 53
42	1	3.100	38, 41, 43
43	1	3.700	33, 38, 41, 42, 51, 53
44	1	1.000	39
45	1	0.500	38, 40, 41, 53
46	3	2.500	39, 57, 138
47	1	2.000	38, 48, 49, 50, 51, 52, 138, 152
48	2	1.000	47, 49, 51, 52
49	3	1.700	47, 48, 50, 51
50	3	1.000	47, 49, 51
51	2	1.300	33, 38, 43, 47, 48, 49, 50, 52, 67, 80, 150, 152
52	3	1.500	47, 48, 51, 152
53	0	1.000	33, 34, 40, 41, 43, 45
54	1	2.900	56, 57
55	1	2.600	39, 56, 57
56	2	1.500	54, 55, 57
57	7	4.600	38, 39, 46, 54, 55, 56
58	2	2.400	59, 64, 69, 75, 85, 87, 88
59	2	1.500	58, 78, 85, 87
60	3	1.000	80, 89, 90
61	0	1.600	24, 29, 36, 77, 81, 84, 90, 123, 133
62	4	2.100	63, 66, 78, 79, 85
63	2	2.700	62, 66, 70
64	1	1.000	58, 76, 83, 85, 88
65	0	1.000	86, 91, 140, 150, 157
66	4	3.400	62, 63, 70, 79
67	2	0.800	51, 80, 86, 91, 150
68	0	1.300	71, 72, 77, 82, 105
69	4	2.800	58, 71, 73, 74, 75, 87, 124
70	1	1.200	63, 66, 79, 87, 93, 99, 108
71	1	0.800	68, 69, 72, 73, 105, 124
72	1	1.700	68, 71, 73, 82
73	5	1.100	69, 71, 72, 74, 81, 82, 89, 90
74	6	4.000	69, 73, 75, 88, 89
75	4	3.800	58, 69, 74, 88
76	0	1.000	64, 85

(Continued)

Ward no.	Observed incidence O(i)	Expected incidence E(i)	Adjacent wards
77	1	1.300	61, 68, 81, 82, 105, 123, 127
78	2	1.600	59, 62, 79, 85, 87
79	5	2.800	62, 66, 70, 78, 87
80	5	4.000	33, 51, 60, 67, 86, 89, 90
81	1	2.900	61, 73, 77, 82, 90
82	6	3.800	68, 72, 73, 77, 81
83	1	2.400	64, 86, 88, 89
84	4	1.400	36, 37, 61, 90
85	3	1.300	58, 59, 62, 64, 76, 78
86	1	1.800	65, 67, 80, 83, 89, 91
87	3	1.100	58, 59, 69, 70, 78, 79, 99, 124
88	0	1.900	58, 64, 74, 75, 83, 89
89	2	0.800	60, 73, 74, 80, 83, 86, 88, 90
90	6	2.100	33, 35, 37, 60, 61, 73, 80, 81, 84, 89
91	0	2.900	65, 67, 86, 150
92	0	1.200	94, 104, 107, 115, 116, 125, 126, 132
93	0	0.800	70, 99, 108, 120, 122, 129
94	0	1.500	19, 92, 100, 107, 116, 130
95	1	2.400	102, 103, 105, 109, 114, 118
96	1	1.000	106, 112, 113, 119, 120, 122
97	0	1.000	9, 13, 101, 102, 113
98	2	1.700	119, 120, 129
99	2	0.800	70, 87, 93, 105, 111, 122, 124
100	0	0.800	94, 116
101	0	1.300	97, 102, 111, 113, 122
102	1	1.000	3, 9, 95, 97, 101, 105, 109, 111
103	1	3.000	24, 28, 95, 114, 118, 131, 133
104	0	0.800	92, 106, 115, 132
105	0	1.000	68, 71, 77, 95, 99, 102, 111, 118, 124, 127
106	0	1.000	96, 104, 112, 115, 119, 132
107	2	2.600	4, 92, 94, 126, 128, 130
108	2	1.800	70, 93
109	3	2.200	3, 95, 102, 114
110	4	2.900	4, 11, 13, 113, 117, 125, 126
111	0	1.600	99, 101, 102, 105, 122
112	1	1.200	96, 106, 113, 117, 132
113	1	1.000	13, 96, 97, 101, 110, 112, 117, 122
114	1	4.300	2, 3, 7, 95, 103, 109, 121, 131
115	1	0.800	92, 104, 106, 119, 132
116	3	2.300	92, 94, 100
117	1	1.000	110, 112, 113, 125, 132
118	1	0.800	95, 103, 105, 123, 127, 133
119	3	2.300	96, 98, 106, 115, 120

(Continued)

(Continued)

Ward no.	Observed incidence O(*i*)	Expected incidence E(*i*)	Adjacent wards
120	1	1.000	93, 96, 98, 119, 122, 129
121	0	1.400	1, 6, 7, 114, 128, 131
122	2	1.300	93, 96, 99, 101, 111, 113, 120, 129
123	1	1.300	61, 77, 118, 127, 133
124	1	0.800	69, 71, 87, 99, 105
125	5	3.600	92, 110, 117, 126, 132
126	0	1.200	4, 92, 107, 110, 125
127	1	0.800	77, 105, 118, 123
128	3	1.400	1, 4, 6, 15, 107, 121, 130, 131
129	1	1.000	93, 98, 120, 122
130	2	1.000	15, 19, 94, 107, 128
131	2	2.400	15, 27, 28, 30, 103, 114, 121, 128
132	0	1.300	92, 104, 106, 112, 115, 117, 125
133	1	1.600	24, 61, 103, 118, 123
134	1	1.500	140, 143, 157
135	5	3.600	137, 139, 142, 147, 149, 156
136	5	4.300	137, 138, 142, 147, 148
137	1	3.700	135, 136, 138, 139, 147, 152
138	3	3.000	46, 47, 136, 137, 141, 148, 152
139	8	3.900	135, 137, 145, 150, 152, 156
140	2	1.500	65, 134, 141, 143, 144, 145, 146, 150, 151, 154, 156,
141	1	0.800	157
142	4	3.700	138, 140, 143, 148, 154, 155
143	2	1.500	135, 136, 147, 148, 149, 153
144	3	3.500	134, 140, 141
145	3	3.300	140, 149, 151, 153, 154, 155
146	4	3.900	139, 140, 150, 156
147	6	4.100	140, 145, 150
148	3	3.000	135, 136, 137, 142
149	5	3.400	136, 138, 141, 142, 153, 155
150	1	2.000	135, 142, 144, 151, 153, 156
151	1	2.800	51, 65, 67, 91, 139, 140, 145, 146, 152
152	5	4.000	140, 144, 149, 156
153	1	2.800	47, 51, 52, 137, 138, 139, 150
154	1	2.300	142, 144, 148, 149, 155
155	6	4.300	140, 141, 144,
156	2	4.300	141, 144, 148, 153, 154
157	0	1.000	135, 139, 140, 145, 149, 151 65, 134, 140