Figure 6

Lung Cancer Mortality among Workers Employed in Two Asbestos Cement Manufacturing Plants in New Orleans, Louisiana

Hughes *et al.*, (1987)

			Number of Lung Cancer Deaths			
					Predicted	
mppcf-y		f-y/ml	Observed	Expected	($\alpha = 1$)	(α variable)
Plant 1 Employees						
4.0	(< 6)	5.6	3	2.9	3.0	3.4
13.0	(6 - 24)	18.2	9	8.0	8.6	9.6
35.0	(25 - 49)	49.0	2	3.7	4.4	4.8
74.0	(50 - 99)	103.6	3	3.8	5.4	5.5
183.0	(>= 100)	256.2	5	4.1	8.3	7.7
Plant 2 Employees						
3.0	(< 6)	4.2	20	18.9	19.2	21.8
12.0	(6 - 24)	16.8	19	14.5	15.5	17.3
36.0	(25 - 49)	50.4	12	6.0	7.2	7.7
71.0	(50 - 99)	99.4	10	5.5	7.7	7.9
164.0	(>= 100)	229.6	12	5.2	9.9	9.4
Goodness of Fit P-value					0.44	0.42
Test of H_0: α=1						
p = 0.10						
Estimates of KL $(\text{f-y/ml})^{-1}$						
($\alpha = 1$)						
KL = 0.0040						
90% CI = (0.0015, 0.0070)						
(α variable)						
KL = 0.0025						
90% CI = (0 , 0.0066)						

Figure 7

Lung Cancer Mortality among South Carolina Chrysotile Asbestos Textile Worke

Cumulative Exposur				Predicted		
Mean	Category	Observed	Expected	(α = 1)	(α variable)	PYR
0.14	0	7	6.8	6.9	8.3	34959.4
1.33	[0.8, 2)	11	9.3	9.6	11.6	13213.7
2.90	[2, 4)	12	9.2	10.0	11.9	11964.5
6.53	[4, 10)	19	11.0	13.0	15.1	14615.1
19.35	[10, 35)	19	11.9	18.4	20.2	14793.3
54.73	[35, 85)	21	8.5	21.7	22.1	8800.7
143.35	(>= 85)	33	6.6	33.5	32.0	4649.9
Totals		122	63.4	113.2	121.2	102996.4
Goodness of Fit				0.92	0.96	

Test of H_0: α = 1

p value 0.21

Estimates of KL (f-y/ml;[1]

(α = 1)

KL = 0.028

90% CI = (0.021, 0.037)

(α variable)

KL = 0.021

90% CI = (0.012, 0.034)

Figure 8

Lung Cancer Mortality among Workers in a Chrysotile Asbestos Textiles Plant in South Carolina

McDonald *et al.*, (1983a)

			Number of Lung Cancer Deaths				
						Predicted	
mppcf-y		f-y/ml	SMR	Observed	Expected	($\alpha = 1$)	(α variable)
5	(< 10)	30	143.1	31	21.7	29.2	30.4
15	(10 - 19)	90	182.7	5	2.7	5.6	5.7
30	(20 - 39)	180	304.2	8	2.6	8.1	8.0
60	(40 - 79)	360	419.5	7	1.7	8.6	8.4
110	(>= 80)	660	1031.9	8	0.8	6.7	6.5
Goodness of Fit P-value						0.95	0.88
Test of H_0: α=1							
p = 0.36							
Estimates of KL (f-y/ml) $^{-1}$							
($\alpha = 1$)							
KL = 0.012							
90% CI = (0.0075, 0.016)							
(α variable)							
KL = 0.010							
90% CI = (0.0044, 0.025)							
Assuming that 6 f/ml = 1 mppcf							