

but among the severely exposed (Table 8) there is a significant excess number of deaths from lung cancer and other cancers. In the group with severe exposure and more than

The Ladders, Mates and Labourers. These workers have been excluded from the general analysis as they were employed on a variety of different contracts and the materials they

TABLE 8: STUDY 3
MORTALITY FROM BEGINNING OF 17TH TO END OF 31ST YEAR
UNDER 2 YEARS ON PAYROLL

Cause of Death	Exposure			
	Low-Moderate		Severe	
	Observed	Expected	Observed	Expected
All Causes	16	16.8	34	19.1 P < .01
Cancer of Lung and Pleura	2	1.4	8	1.6 P < .001
Other Cancers	1	2.4	9	2.7 P < .001
Respiratory Diseases Excluding Cancer	1	2.5	2	2.6
Other Diseases	12	10.5	15	12.1

2 years' employment (Table 9) there is an excess of deaths from lung cancers, other cancers and from respiratory diseases.

To determine more precisely the length of follow up required before a significant excess of deaths from cancers and respiratory diseases could be demonstrated, both the observed and

used and the conditions of work varied considerably. Also, the majority were recruited within 5 years of the end of the survey. However, there is one group which has been followed for a sufficient length of time to show a significant excess of observed deaths from cancer of the lung and pleura.

TABLE 9: STUDY 3
MORTALITY FROM BEGINNING OF 17TH TO END OF 31ST YEAR
OVER 2 YEARS ON PAYROLL

Cause of Death	Exposure			
	Low-Moderate		Severe	
	Observed	Expected	Observed	Expected
All Causes	15	13.5	36	18.3 P < .001
Cancer of Lung and Pleura	1	1.1	11	1.5 P < .001
Other Cancers	2	1.9	7	2.6 P < .02
Respiratory Diseases Excluding Cancer	4	2.0	10	2.8 P < .001
Other Diseases	8	8.5	8	11.4

the expected deaths were grouped into the 3 consecutive 5-year periods of study 3. There was already an excess of deaths from cancers and from respiratory diseases in the first five years of the study, indicating that the latent period from first exposure to death need not necessarily be longer than from between 17 to 21 years.

VALIDATION OF THE 'CAUSE OF DEATH' AS GIVEN ON THE DEATH CERTIFICATE

Copies of the death certificates of 436 of the past factory workers were obtained. It was decided only to attempt to obtain further information about the 215 subjects who had died in hospital and the 86 who had been the