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PLAINTIFF'S
EXHIBIT

MRC Pneumoconiosis Unit

DOCUMENT A

GB/EMT

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BOHS Asbestos Standards Sub-Committee

TBA Study Updating

The original study carried out by Dr. Knox consisted of 280 men who had worked at TBA for 10 or more years since 1. 1. 1933 and were still employed on 30. 6. 66.

This population was updated by Dr. Lewinsohn to 31. 12. 72. The period of service criteria remain the same but a man leaving TBA or dying after 30. 6. 66 would not be excluded. That is

Lewinsohn's 1972 popn. = Knox's 1966 popn.

+ men reaching 10 years' service between 30. 6. 66 and 31. 12. 72 irrespective of whether they were still employed on 31. 12. 72.

The revised population contained 393 men, but one was excluded because it was discovered he had not 10 years' service and for another it proved impossible to disentangle his work history from another man with the same name, leaving 391 men.

Data

X-rays The latest x-ray of each man was used. For men who had left TBA Dr. Lewinsohn tried to trace them and invite them for a medical check up and x-ray. He was successful in about 60% of the cases. The distribution of year of x-ray is:-

1951	1
1959	2
1964	3
1965	11
1966	6
1967	8
1968	9
1969	7
1970	11
1971	44
1972	197
1973	63
1974	27
1975	2
Total	391

These x-rays were all read using the ILO U/C classification by 4 readers (Drs Gilson, Harries, Lewinsohn and Springett).

Other medical data.

For each man there was a medical carried out by Dr. Lewinsohn (or Dr. Knox). The medicals would usually be done at about the same time as the x-rays. From the medicals two items of information were extracted:-

- (i) presence or absence of creps.
- (ii) whether the M.O. suspected asbestosis, and if so date of first suspicion.

Also if a man had been compensated by the panel, the date of compensation and rate of disability is known.

Lung function data.

The following are available on the number of men indicated.

FEV ₁ and FVC ¹⁰	FRC	TLC and RV ¹⁰	PaCO ₂	TL
319	304	302	286	301

and also for everyone the race, smoking habits, height and weight.

Works history and dust data.

The works history was coded using the EMAS list of job codes for the asbestos industry. However, Dr. Holmes did not consider this detailed enough for him to link dust measurements. Therefore Dr. Roach visited TRA in March 1975 and produced a job history using the codes used within TRA. He also established the locations corresponding to each job code and hence produced the average dust concentration for each job and each year from 1961 to 1972. The best way of estimating dust concentrations for the jobs prior to 1961 will have to be decided.

Proposed Analysis

The following response variables will be considered:-

- Profusion of small opacities (average of 4 readers)
- Profusion of small opacities (average omitting Dr. Lewinsohn)
- Extent of opacities.
- Costrophrenic angle.
- Pleural thickening.
- Creps.
- Asbestosis suspected by M.O.
- Lung function data (? which).

The following measures of exposure to asbestos:-

- Cumulative time weighted dose.
- Cumulative dose weighted by time since deposited.
- Years since first exposure

and various characteristics will be allowed for, e.g. age and height when analysing FEV etc.