

Medical Surveillance of Blood-Lead Levels

In British Workers over the Period 1992/93 to 2009/10

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Summary

This document describes statistics for blood-lead measurements taken under statutory medical surveillance for work with lead over the period 1992/93 to 2009/10. This is the period for which the collected medical surveillance data is complete and available electronically.

The document can be found at www.hse.gov.uk/statistics/causdis/lead/index.htm.

There was an overall reduction in the number of British workers under medical surveillance for work with lead over the past 18 years. Women have consistently accounted for a small proportion of the total under surveillance, and the number of young people (under 18 years) under surveillance remains low.

Over the 18 year period of medical surveillance the data show:

- The total number of workers under medical surveillance fell by 66% from 21,113 in 1992/93 to 7,162 in 2009/10.
- The two industry sectors with the highest number of males under surveillance from 1992/93 to 2009/10 were the smelting, refining, alloying and casting sector and the lead battery industry.
- The number of males with blood-lead levels of 70µg/100ml or above fell from 196 in 1992/93 to 15 in 2009/10
- The number of males with blood-lead levels of 60µg/100ml or above fell from 774 in 1992/93 to 52 in 2009/10.
- Over the course of the regulations 2 young males have been recorded with blood-lead levels of 50µg/100ml or above: one in 1998/99 in smelting, refining, alloying and casting and another in 2003/04 in the scrap industry.
- The number of males suspended due to blood-lead measurements fell from 147 in 1992/93 to 51 in 2009/10.
- The industry sector with the highest number of females under surveillance was the potteries, glazes and transfers sector until 2004/05, after which the lead battery industry was the main industry employing females.
- The number of females with blood-lead levels of 40μg/100ml or above fell from 41 in 1992/93 to none in 2009/10.
- The number of females with blood-lead levels of 30μg/100ml or above fell from 64 in 1996/97 (no information on blood-lead levels under 40μg/100ml is available before this year) to 3 in 2009/10.
- Over the course of the regulations 1 young female has been recorded with a blood-lead level of 30µg/100ml or above; in 1999/2000 and employed in other processes
- The number of females suspended due to blood-lead measurements fell from 5 in 1992/93 to 0 in 2009/10.

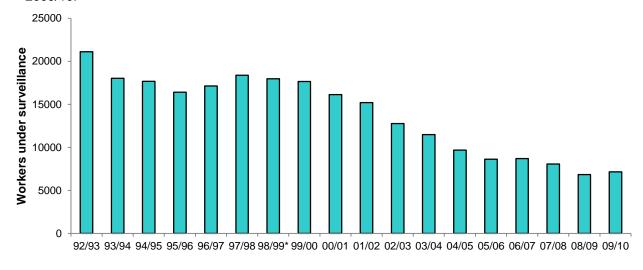


Figure 1 The total number of British lead workers under medical surveillance from 1992/93 to 2009/10

Introduction

Lead, including its alloys and compounds, can lead to a range of medical problems, including lead poisoning. Exposure to lead can occur in many occupations, via inhalation, ingestion or dermal contact.

Prior to the introduction of the Control of Lead at Work (CLAW) Regulations in August 1981, there were ten individual regulations that covered the use of Lead, including regulations on "paint and colour manufacture", "lead smelting and manufacture" and "lead compounds manufacture".

Under the CLAW regulations all workers with significant exposure to lead (workers whose potential exposure or recorded measurements exceed half the exposure limits defined by the regulations or are otherwise advised by an appointed doctor) are required to undergo medical surveillance. The regulations provide blood-lead concentration levels (micrograms per 100 millilitres of blood; µg/100ml) at which workers should either be protected or removed from working with lead; action and suspension limits respectively (Table 1). Over the 18 year period covered by this report the suspension levels have been lowered for males and females under medical surveillance and additional action limits introduced. Since 1998/99, separate information has also been collected on young people (aged under 18 years) under medical surveillance.

Table 1 Summary of the Control of Lead at Work (CLAW) Regulations 1980, 1998 and 2002

	CLAW Regulations 1980	CLAW Regulations 1998 and 2002				
Came into force	August 1001	April 1998				
	August 1981	Unchanged in November 2002				
Collection	Calendar years 1982-1986	Financial years				
	Financial years 1987/88 onwards					
Male and other workers						
Suspension level	80µg/100ml 1982-1985	60ug/100ml				
	70μg/100ml 1986 onwards	60μg/100ml				
Action level	-	50μg/100ml				
Female workers of reproductive capacity						
Suspension level	40μg/100ml	30μg/100ml				
Action level	-	25µg/100ml				
Young workers (aged under 18 years)						
Suspension level	-	50μg/100ml				
Action level	-	40μg/100ml				

HSE's Medical Inspectors, HSE Appointed Doctors (who are the main group of doctors carrying out statutory medical surveillance of lead-exposed workers in GB), and a body of scientific evidence would indicate that it is often the case that individuals with blood-lead levels at or above the suspension limit and who are suspended from working with lead do not have symptoms normally described as "lead poisoning". Such workers are therefore removed from further exposure to lead to reduce the likelihood of such symptoms developing.

In the absence of more detailed data, all women are assumed to be of reproductive capacity, thus the lower suspension/action limits are used for all females in the results presented.

Over the period that this report covers the blood-lead sector classifications for surveillance data remained unchanged. The industry sector categories were revised in 2010 to better reflect current working practices and conditions.

A detailed discussion of the basis for the statistics and their potential limitations is available on the data sources page, see www.hse.gov.uk/statistics/sources.htm#lead for more information.

Workforce under medical surveillance

Total number of workers

The total number of workers under medical surveillance fell by 66% from 21,113 in 1992/93 to 7,162 in 2009/10 (Table 2). Women accounted for only a small proportion of the total number of workers under surveillance over this period (5.3% in 1992/93 and 3.4% in 2009/10).

Table 2 Breakdown of workers under medical surveillance

Year	Males	% Males	Females	% Females	Total	Individuals Suspended
92/93	20001	94.7%	1112	5.3%	21113	152
93/94	17199	95.4%	831	4.6%	18030	128
94/95	16821	95.2%	854	4.8%	17675	133
95/96	15455	94.2%	949	5.8%	16404	84
96/97	16210	94.6%	922	5.4%	17132	69
97/98	17523	95.4%	848	4.6%	18371	58
98/99	17199 (41)	95.7%	776 (6)	4.3%	17975 (47)	197
99/00	16832 (46)	95.4%	813 (8)	4.6%	17645 (54)	124 (1)
00/01	15411 (33)	95.6%	716 (15)	4.4%	16127 (48)	94
01/02	14577 (17)	95.9%	620 (3)	4.1%	15197 (20)	110
02/03	12245 (25)	95.9%	528 (3)	4.1%	12773 (28)	73
03/04	11011 (32)	95.9%	467 (7)	4.1%	11478 (39)	93 (1)
04/05	9267 (26)	95.7%	418	4.3%	9685 (26)	67
05/06	8278 (12)	96.1%	340 (10)	3.9%	8618 (22)	60
06/07	8376 (4)	96.3%	321 (4)	3.7%	8697 (8)	29
07/08	7752 (7)	96.1%	317	3.9%	8069 (7)	29
08/09	6563 (19)	96.1%	268 (3)	3.9%	6831 (22)	17
09/10	6916 (8)	96.6%	246	3.4%	7162 (8)	51 (1)

Figures are for the total number of workers under medical surveillance, of which the number under 18 years of age is given in brackets

The number of young people (under 18 years) under medical surveillance has decreased to 8 individuals in 2009/10; this compares with 47 individuals in 1998/99, when data on young people were first available.

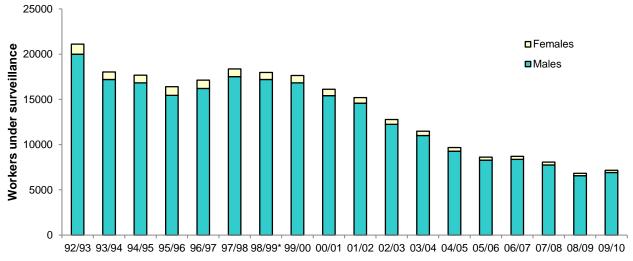


Figure 2 The total number of British lead workers under medical surveillance since 1992/93 by sex

- In 1992/93 there were 20,001 males under surveillance, by 2009/10 this had fallen to 6,916 males
- In 1998/99 41 young males were under surveillance, this has reduced to 8 young males under surveillance in 2009/10
- The number of male workers under medical surveillance who were suspended from working with lead has steadily reduced from 147 in 1992/93 to 51 in 2009/10, after an increase corresponding to the reductions in the suspension/action levels in 1998/99

- In 1992/93 there were 1,112 females under surveillance, by 2009/10 this had fallen to 246 females
- In 1998/99 6 young females were under surveillance, this remains low and no young females were under surveillance in 2009/10
- The number of female workers under medical surveillance who were suspended from working with lead has remained low with 5 in 1992/93 and none in 2009/10. There was an increase to 18 females suspended corresponding to the reductions in the suspension/action levels in 1998/99

Results of blood-lead measurements

All figures are based on the highest recorded blood-lead level for each individual. The number of females under medical surveillance is small and tends to fluctuate from year to year; making changes over time difficult to interpret. There are also difficulties interpreting changes over time for the number of suspensions and the number above the suspension and action limits as these limits have changed over the 18 year period covered by this report.

Detailed summary tables of blood-lead levels by sex and industrial sector can be found in the appendix.

An assessment of the trend in the proportion of measurements $>40\mu g/100ml$ (males under medical surveillance), $>25\mu g/100ml$ (females under medical surveillance) and $<10\mu g/100ml$ (males and females under medical surveillance) was made by fitting logistic regression models. Results are not presented for sector/sex combinations where the data is sparse and/or the proportions did not change.

- The number of males recorded with high blood-lead levels (a recorded level above the suspension limit) has decreased over the past 18 years.
 - $-\,$ In 1992/93, 196 male workers (1.0% of male workers) had a recorded blood-lead level at or above $70\mu g/100ml$
 - In 1998/99 (the introduction of revised limits), 71 male workers (0.4% of male workers) had a recorded blood-lead level at or above 70µg/100ml
 - In 2009/10, 15 male workers (0.2% of male workers) had a recorded blood-lead level at or above 70μg/100ml
 - In 1992/93, 774 males (3.9% of male workers) had a recorded blood-lead level at or above $60\mu g/100ml$
 - In 1998/99 (the introduction of revised limits), 322 males (1.9% of male workers) had a recorded blood-lead level at or above 60μg/100ml
 - In 2009/10, 52 male workers (0.8% of male workers) had a recorded blood-lead level at or above 60µg/100ml
- Over the course of the regulations 2 young males have been recorded with high blood-lead levels (a blood-lead level at or above 50µg/100ml), one in 1998/99 and another in 2003/04; these individuals are not included in the figure stated above for all males
- There is a downward trend in the number of males suspended from working with lead due to excess blood-lead levels
 - In 1992/93, 147 male workers (0.7% of male workers) were suspended from work
 - There was an increase in 1998/99 to 179 males (1.0% of male workers) suspended from work
 - In 2009/10, 51 male workers (0.7% of male workers) were suspended from work
 - These figures include 2 young males who were suspended from work; one in 2003/04 and another in 2009/10

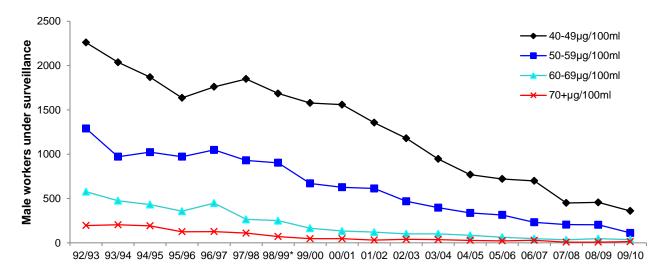


Figure 3 The breakdown of male lead workers under medical surveillance since 1992/93 with elevated blood-lead levels (>40µg/100ml)

- In 1992/93 the median male blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median male blood-lead level was within the range 20-24μg/100ml. Over the following 13 years the median male blood-lead level reduced to within the range 10-19μg/100ml in 2009/10
- The proportion of males recorded with a blood-lead level >40μg/100ml has decreased from 21.6% of male workers in 1992/93 to 7.6% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement greater than 40μg/100ml decreased by 6% (Figure 4, left hand panel)
- The proportion of males recorded with a blood-lead level <10μg/100ml has increased from 25.4% of male workers in 1998/99 to 37.0% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10μg/100ml increased by 4% (Figure 4, right hand panel)

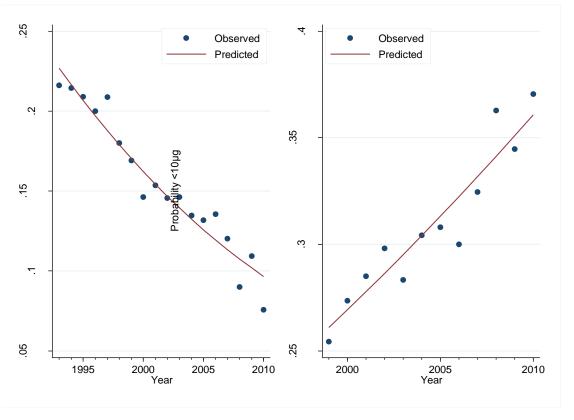


Figure 4 Probability of male blood-lead measurement by year [predicted by logistic regression]. The graph on the left is for the probability of a male blood-lead measurement >40μg/100ml. The graph on the right is for the probability of a male blood-lead measurement <10μg/100ml

- The number of females recorded with high blood-lead levels (a recorded level above the suspension limit) has decreased over the past 18 years.
 - In 1992/93, 41 female workers (3.7% of female workers) had a recorded blood-lead level at or above 40μg/100ml
 - In 1998/99 (the introduction of revised limits), 18 female workers (2.3% of female workers) had a recorded blood-lead level at or above 40µg/100ml
 - In 2009/10, no female workers had a recorded blood-lead level at or above 40µg/100ml
 - In 1998/99 (the introduction of revised limits), 50 female workers (6.4% of female workers) had a recorded blood-lead level at or above 30µg/100ml
 - In 2009/10, 3 female workers had a recorded blood-lead level at or above 30μg/100ml
 - No data are available for lower blood-lead ranges in 1992/93 for comparison
- Over the course of the regulations 1 young female has been recorded with high blood-lead levels (a blood-lead level at or above 30μg/100ml) in 1999/2000; this individual is included in the figure stated above for all females
- The number of females suspended from working with lead due to excess blood-lead levels has remained low throughout the surveillance period
 - In 1992/93, 5 female workers (0.4% of female workers) were suspended from work
 - There was an increase in 1998/99 to 18 females (2.3% of female workers) suspended from work
 - In 2009/10, no females were suspended from work
 - These figures include 1 young female who was suspended from work in 1999/2000

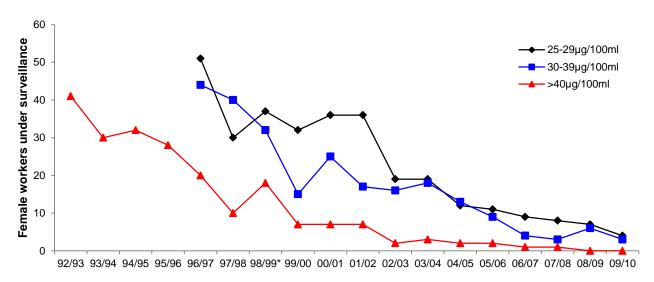


Figure 5 The breakdown of female lead workers under medical surveillance since 1992/93 with elevated blood-lead levels (>25µg/100ml)

- In 1992/93 the median female blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median female blood-lead level was under 20μg/100ml. Over the following 13 years the median female blood-lead level reduced to under 10μg/100ml in 2009/10
- The proportion of females recorded with a blood-lead level >25µg/100ml has decreased from 12.5% of female workers in 1996/97 to 2.8% of female workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement greater than 25µg/100ml decreased by 8% (Figure 6, left hand panel)
- The proportion of females recorded with a blood-lead level <10μg/100ml has increased from 49.6% of female workers in 1998/99 to 72.4% of female workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10μg/100ml increased by 12% (Figure 6, right hand panel)

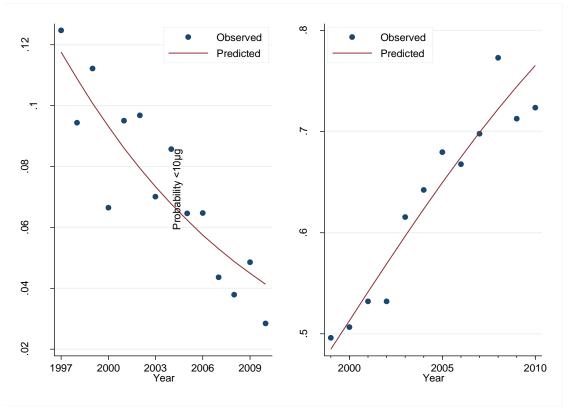


Figure 6 Probability of female blood-lead measurement by year [predicted by logistic regression]. The graph on the left is for the probability of a female blood-lead measurement >25μg/100ml. The graph on the right is for the probability of a female blood-lead measurement <10μg/100ml

Employment in lead industry sectors

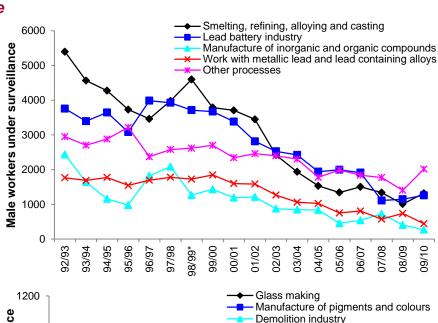
The leading three industry sectors are the smelting, refining, alloying and casting industry, the lead battery industry and industries involving "other processes"; which includes many smaller industries that are not covered by the broader industry sector category descriptions. These three industry sectors account for approximately 60% of those under medical surveillance. Due to the small numbers of females involved in medical surveillance, comparisons between years may not be reliable.

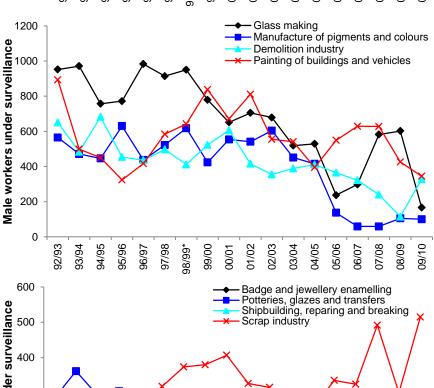
Males under surveillance

The main industries that employed the largest number of males included medical surveillance over the 1992/93 period to 2009/10 were the smelting, refining, alloying and casting sector, the lead battery industry and work involving "other processes".

Over the period, the number of males under medical surveillance has:

- Increased in the scrap industry, from 145 males (0.7% of male workers) in 1992/93 to 515 males (7.4% of male workers) in 2009/10;
- Reduced in the smelting, refining, alloying and casting sector, from 5398 males (27.0% of male workers) in 1992/93 to 1321 males (19.1% of male workers) in 2009/10; and
- Reduced the manufacture of inorganic and organic compounds industry, from 2438 males (12.2% of male workers) in 1992/93 to 270 males (3.9% of male workers) 2009/10.





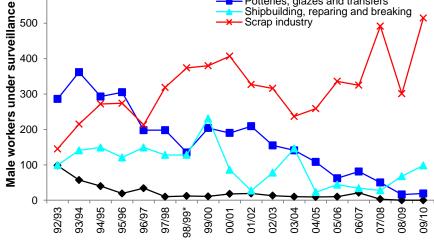


Figure 7 The breakdown of male lead workers under medical surveillance from 1992/93 to 2009/10 by industrial sector

The main industries that employed the largest number of females included in medical surveillance over the period 1992/93 to 2009/10 were the lead battery industry, the potteries, glazes and transfers industry industries involving work with metallic lead and lead containing alloys.

Over the period, the number of females under surveillance has:

- Increased in the scrap industry, from 1 female (0.1% of female workers) in 1992/93 to 22 females (8.9% of female workers) in 2009/10;
- Reduced in the potteries, glazes and transfers sector, from 179 females (16.1% of female workers) in 1992/93 to 7 females (2.8% of female workers) in 2009/10; and
- Reduced in the manufacture of inorganic and organic compounds industry, from 182 females (16.4% of female workers) in 1992/93 to females no in 2009/10.

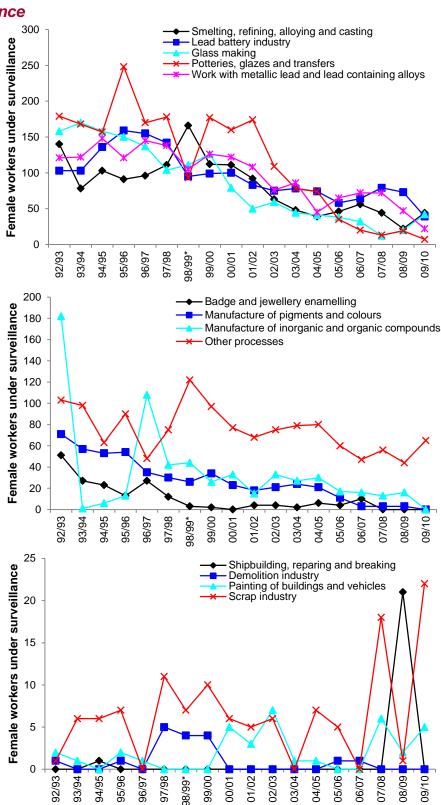


Figure 8 The breakdown of female lead workers under medical surveillance from 1992/93 to 2009/10 by industrial sector

Lead based industry breakdown

Sector 01: Smelting, refining, alloying and casting

The number of workers under medical surveillance in the smelting, refining, alloying and casting sector fell by 75% from 5,538 in 1992/93 to 1,365 in 2009/10. The number of young people (under 18 years) under medical surveillance has also decreased from 7 individuals in 1998/99 to 2 individuals in 2009/10; after an increase to 15 individuals in 2000/01.

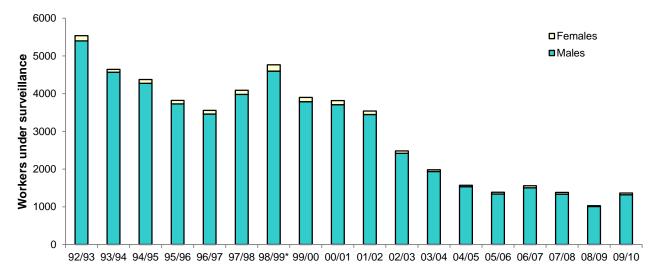


Figure 9 The total number of British lead workers under medical surveillance in the smelting, refining, alloying and casting sector since 1992/93 by sex

- In 1992/93 there were 5,398 males under surveillance in the smelting, refining, alloying and casting sector; by 2009/10 this had fallen to 1,321 males
- The number of young males under surveillance has decreased from 7 in 1998/99 to 2 in 2009/10
- In 1992/93 there were 46 males (0.9% of male workers) with a recorded blood-lead level at or above 70µg/100ml; this reduced to none in 2009/10
- In 1992/93 there were 195 males (3.7% of male workers) with a recorded blood-lead level at or above 60µg/100ml; this reduced to 1 male (0.1% of male workers) in 2009/10
- Over the course of the regulations 1 young male has been recorded with high blood-lead levels (a blood-lead level at or above 50μg/100ml) in 1998/99, this individual is not included in the figure stated above
- The number of male workers under medical surveillance who were suspended from working with lead has steadily reduced from 52 in 1992/93 to 1 in 2009/10, after an increase corresponding to the reductions in the suspension/action levels in 1998/99
- In 1992/93 the median male blood-lead level was under 40µg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median male blood-lead level was within the range 25-29µg/100ml. Over the following 13 years the median male blood-lead level reduced to within the range 10-19µg/100ml in 2009/10
- The proportion of males recorded with a blood-lead level >40μg/100ml has decreased from 25.2% of male workers in 1992/93 to 3.1% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement greater than 40μg/100ml decreased by 8% (Figure 10, left hand panel)
- The proportion of males recorded with a blood-lead level <10μg/100ml has fluctuated over the period with 24.3% of male workers in 1998/99 and 23.2% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10μg/100ml decreased by 2% (Figure 10, right hand panel)

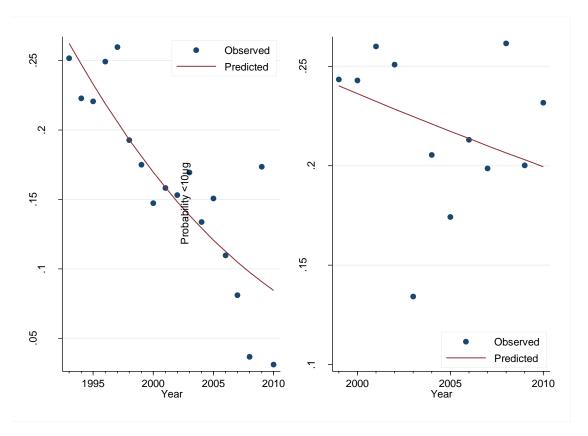


Figure 10 Probability of male blood-lead measurement by year [predicted by logistic regression]. The graph on the left is for the probability of a male blood-lead measurement >40μg/100ml. The graph on the right is for the probability of a male blood-lead measurement <10μg/100ml

- In 1992/93 there were 140 females under surveillance in the smelting, refining, alloying and casting sector; by 2009/10 this had fallen to 44 females
- The number of young females under surveillance has varied over the period with a high of 10 in 2000/01 and none between 2004/05 and 2009/10
- In 1992/93 there were 4 females (2.9% of female workers) with a recorded blood-lead level at or above 40μg/100ml; this reduced to none in 2009/10
- In 1996/97 (the first year in which lower blood-lead level data is available) there were 5 females (5.2% of female workers) with a recorded blood-lead level at or above 30µg/100ml; this reduced to none in 2009/10
- The number of female workers under medical surveillance who were suspended from working with lead has been low, with 7 suspensions over the 18 year period
- In 1992/93 the median female blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median female blood-lead level was under 20μg/100ml. Over the following 13 years the median female blood-lead level reduced to under 10μg/100ml in 2009/10
- The proportion of females recorded with a blood-lead level >25μg/100ml has decreased from 10.4% of female workers in 1996/97 to 0% of female workers since 2006/07. Each year, on average, the odds of having a recorded blood-lead measurement greater than 25μg/100ml decreased by 24% (Figure 11, left hand panel)
- The proportion of females recorded with a blood-lead level <10μg/100ml has increased from 56.0% of female workers in 1998/99 to 79.5% of female workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10μg/100ml increased by 24% (Figure 11, right hand panel)

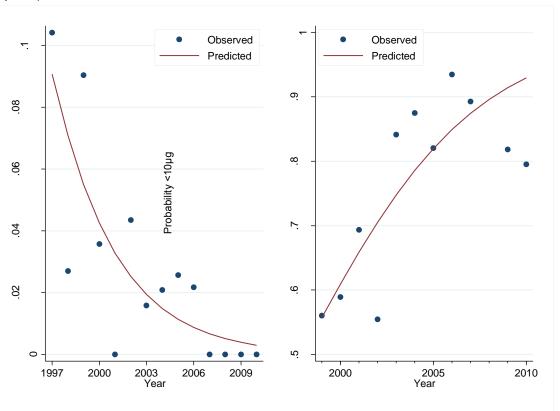


Figure 11 Probability of female blood-lead measurement by year [predicted by logistic regression]. The graph on the left is for the probability of a female blood-lead measurement >25μg/100ml. The graph on the right is for the probability of a female blood-lead measurement <10μg/100ml

Sector 02: Lead battery industry

The number of workers under medical surveillance in the lead battery industry fell by 66% from 3,862 in 1992/93 to 1,300 in 2009/10. The number of young people (under 18 years) under medical surveillance fluctuated between 0 and 5 individuals.

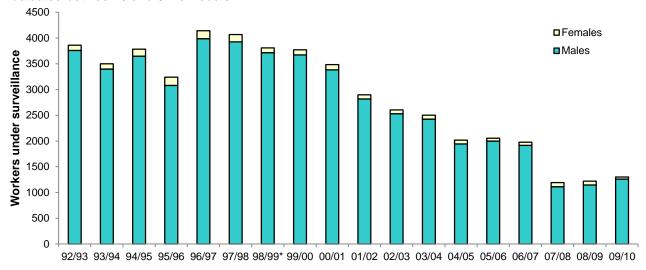


Figure 12 The total number of British lead workers under medical surveillance in the lead battery industry since 1992/93 by sex

- In 1992/93 there were 3,759 males under surveillance in the lead battery industry; by 2009/10 this had fallen to 1,261 males
- The number of young males under surveillance has varied from none to a high of 5 in 1999/2000
- In 1992/93 there were 78 males (2.1% of male workers) with a recorded blood-lead level at or above 70µg/100ml; this reduced to 2 males (0.2% of male workers) in 2009/10
- In 1992/93 there were 331 males (8.8% of male workers) with a recorded blood-lead level at or above 60µg/100ml; this reduced to 5 males (0.4% of male workers) in 2009/10
- Over the course of the regulations no young male has been recorded with high blood-lead levels (a blood-lead level at or above 50μg/100ml)
- The number of male workers under medical surveillance who were suspended from working with lead has steadily decreased from 36 in 1992/93 to 6 in 2009/10, after an increase corresponding to the reductions in the suspension/action levels in 1998/99
- In 1992/93 the median male blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median male blood-lead level was within the range 35-39μg/100ml. Over the following 13 years the median male blood-lead level reduced to within the range 20-24μg/100ml in 2009/10
- The proportion of males recorded with a blood-lead level >40μg/100ml has decreased from 44.3% of male workers in 1992/93 to 13.0% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement greater than 40μg/100ml decreased by 7% (Figure 13, left hand panel)
- The proportion of males recorded with a blood-lead level <10µg/100ml has increased from 8.1% of male workers in 1998/99 to 18.5% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10µg/100ml increased by 12% (Figure 13, right hand panel)

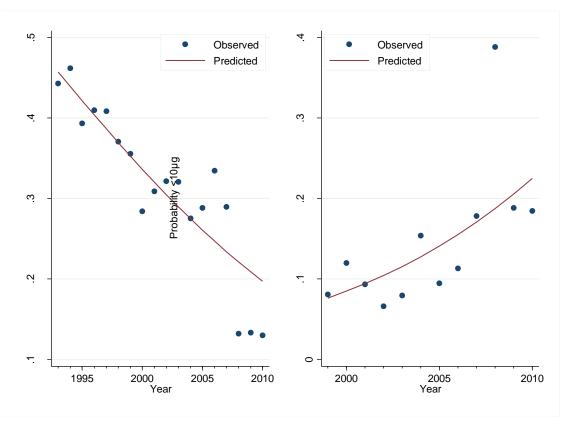


Figure 13 Probability of male blood-lead measurement by year [predicted by logistic regression]. The graph on the left is for the probability of a male blood-lead measurement >40μg/100ml. The graph on the right is for the probability of a male blood-lead measurement <10μg/100ml

- In 1992/93 there were 103 females under surveillance in the lead battery industry; by 2009/10 this had fallen to 39 females
- There were 2 young females under surveillance over the 18 year period in 2000/01
- In 1992/93 there were 22 females (21.4% of female workers) with a recorded blood-lead level at or above 40µg/100ml; this reduced to none in 2009/10
- In 1996/97 (the first year in which lower blood-lead level data is available) there were 37 females (23.8% of female workers) with a recorded blood-lead level at or above 30μg/100ml; this reduced to 3 females (7.8% of female workers) in 2009/10
- The number of female workers under medical surveillance who were suspended from working with lead has decreased from a high of 12 individuals in 1993/94 to none over the period 2006/07 to 2009/10
- In 1992/93 the median female blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median female blood-lead level was under 20μg/100ml. Over the following 13 years the median female blood-lead level reduced to under 10μg/100ml in 2009/10
- The proportion of females recorded with a blood-lead level >25μg/100ml has decreased from 33.6% of female workers in 1996/97 to 15.4% of female workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement greater than 25μg/100ml decreased by 9% (Figure 14, left hand panel)
- The proportion of females recorded with a blood-lead level <10μg/100ml has increased from 13.7% of female workers in 1998/99 to 51.3% of female workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10μg/100ml increased by 23% (Figure 14, right hand panel)

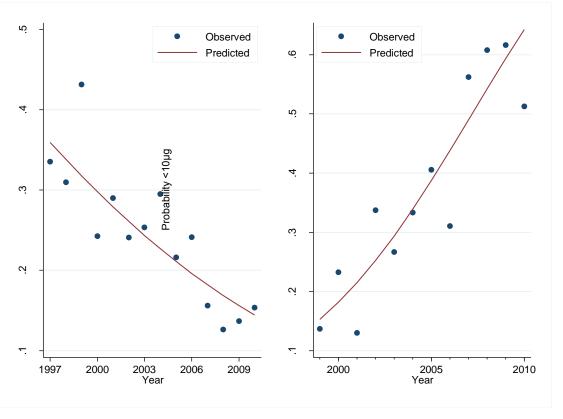


Figure 14 Probability of female blood-lead measurement by year [predicted by logistic regression]. The graph on the left is for the probability of a female blood-lead measurement >25µg/100ml. The graph on the right is for the probability of a female blood-lead measurement <10µg/100ml

Sector 03: Badge and jewellery enamelling

The number of workers under medical surveillance in the badge and jewellery enamelling sector has fallen from 149 in 1992/93 to none in 2009/10. There were 3 records for young people (under 18 years) under medical surveillance over the 18 year period.

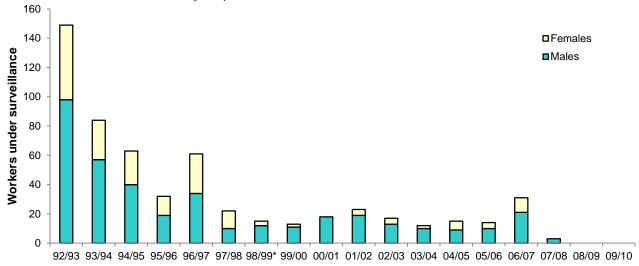


Figure 15 The total number of British lead workers under medical surveillance in the badge and jewellery enamelling sector since 1992/93 by sex

- In 1992/93 there were 98 males under surveillance in the badge and jewellery enamelling sector; by 2009/10 this had fallen to none
- There were 3 young males under surveillance from 1998/99 to 2009/10, one in each of the years 1999/2000, 2000/01 and 2001/02
- In 1992/93 there were no males with a recorded blood-lead level at or above 70μg/100ml; this remained through to 2007/08 (No males were under medical surveillance in this sector from 2008/09 to 2009/10)
- In 1992/93 there were 2 males (2.0% of male workers) with a recorded blood-lead level at or above 60µg/100ml; this reduced to no males the following year and remained through to 2007/08 (No males were under medical surveillance in this sector from 2008/09 to 2009/10)
- None of the young males were recorded with a high blood-lead levels (a blood-lead level at or above 50µg/100ml)
- No male workers under medical surveillance were suspended from working with lead over the 18 year period
- In 1992/93 the median male blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median male blood-lead level was within the range 25-29μg/100ml. Over the following 11 years the median male blood-lead level varied (typically under 30μg/100ml) due to the small numbers under surveillance (No males were under medical surveillance in this sector from 2008/09 to 2009/10)
- The proportion of males recorded with a blood-lead level >40µg/100ml has fluctuated over the period with 7.1% of male workers in 1992/93 and 66.7% of male workers in 2007/08 (No males were under medical surveillance in this sector from 2008/09 to 2009/10)
- The proportion of males recorded with a blood-lead level <10µg/100ml has fluctuated over the period with 8.3% of male workers in 1998/99 and 38.1% of male workers in 2006/07 (No males were under medical surveillance in this sector from 2008/09 to 2009/10)

- In 1992/93 there were 51 females under surveillance in the badge and jewellery enamelling sector; by 2009/10 this had fallen to none
- No young females have been under surveillance over the period
- In 1992/93 there were 5 females (9.8% of female workers) with a recorded blood-lead level at or above 40µg/100ml; this reduced to none from 1995/96
- Over the 14 year period in which lower blood-lead level data is available only one female had a recorded blood-lead level at or above 30µg/100ml; in 1997/98 (8.3% of female workers)
- There has been 1 female worker under medical surveillance who was suspended from working with lead in 1994/95
- In 1992/93 the median female blood-lead level was under 40µg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median female blood-lead level was under 20µg/100ml. Over the following years the median female blood-lead level reduced to under 10µg/100ml in 2006/07 (No females were under medical surveillance in this sector from 2007/08 to 2009/10)
- There was only one year when any females were recorded with a blood-lead level >25µg/100ml, this was 1997/98 with 16.7% of female workers
- The proportion of females recorded with a blood-lead level <10µg/100ml was 70% of female workers in 2006/07 (No females were under medical surveillance in this sector from 2007/08 to 2009/10)

Sector 04: Glass making

The number of workers under medical surveillance in the glass making sector fell by 81% from 1,110 in 1992/93 to 208 in 2009/10. The number of young people (under 18 years) under medical surveillance has also decreased with 3 records for young people under medical surveillance over the period 2005/06 to 2009/10 compared with 23 individuals in 1998/99.

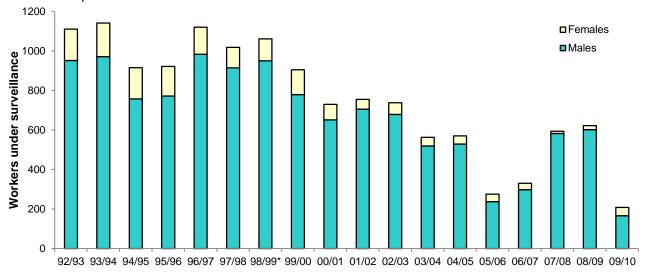


Figure 16 The total number of British lead workers under medical surveillance in the glass making sector since 1992/93 by sex

- In 1992/93 there were 952 males under surveillance in the glass making sector; by 2009/10 this had fallen to 166 males
- The number of young males under surveillance has decreased from 21 in 1998/99 to none between 2006/07 and 2009/10
- In 1992/93 there were 6 males (0.6% of male workers) with a recorded blood-lead level at or above 70μg/100ml; this reduced to none in 2009/10
- In 1992/93 there were 37 males (3.9% of male workers) with a recorded blood-lead level at or above 60µg/100ml; this reduced to none in 2009/10
- Over the course of the regulations no young males have been recorded with high blood-lead levels (a blood-lead level at or above 50μg/100ml)
- The number of male workers under medical surveillance who were suspended from working with lead has decreased from a high of 5 in 1993/94 to none since 2002/03
- In 1992/93 the median male blood-lead level was under 40µg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median male blood-lead level was within the range 20-24µg/100ml. This remains unchanged in 2009/10
- The proportion of males recorded with a blood-lead level >40μg/100ml has decreased from 29.5% of male workers in 1992/93 to 7.2% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement greater than 40μg/100ml decreased by 7% (Figure 17)
- The proportion of males recorded with a blood-lead level <10µg/100ml has increased from 16.1% of male workers in 1998/99 to 22.9% of male workers in 2009/10

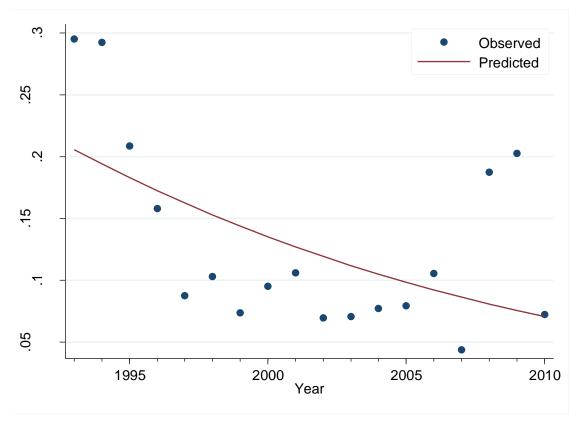


Figure 17 Probability of a male blood-lead measurement >40µg/100ml by year [predicted by logistic regression]

- In 1992/93 there were 158 females under surveillance in the glass making sector; by 2009/10 this had fallen to 42 females
- The number of young females under surveillance has varied over the period with a high of 6 in 1999/2000 and 2 between 2004/05 and 2009/10
- In 1992/93 there were 4 females (2.5% of female workers) with a recorded blood-lead level at or above 40μg/100ml; this reduced to none in 2009/10
- In 1996/97 (the first year in which lower blood-lead level data is available) there were 5 females (3.6% of female workers) with a recorded blood-lead level at or above 30μg/100ml; this reduced to none in 2009/10
- The number of female workers under medical surveillance who were suspended from working with lead has been low, with 8 suspensions over the 18 year period
- In 1992/93 the median female blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median female blood-lead level was under 20μg/100ml. Over the following 13 years the median female blood-lead level reduced to under 10μg/100ml in 2009/10
- The proportion of females recorded with a blood-lead level >25µg/100ml has decreased from 10.9% of female workers in 1996/97 to 0% of female workers in 2008/09 and 2009/10
- The proportion of females recorded with a blood-lead level <10μg/100ml has increased from 38.7% of female workers in 1998/99 to 73.8% of female workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10μg/100ml increased by 13% (Figure 18)

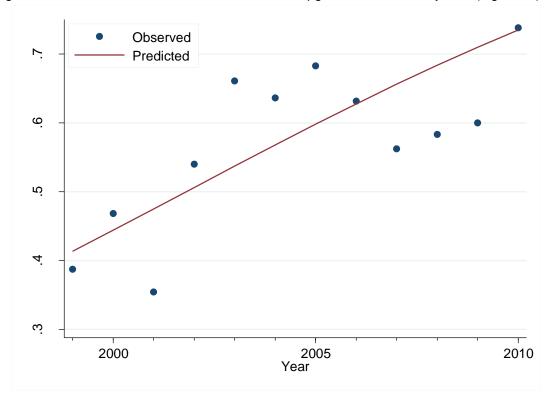


Figure 18 Probability of a female blood-lead measurement <10μg/100ml by year [predicted by logistic regression]

Sector 05: Manufacture of pigments and colours

The number of workers under medical surveillance in the manufacture of pigments and colours sector fell by 84% from 636 in 1992/93 to 100 in 2009/10. There were 6 records for young people (under 18 years) under medical surveillance over the 18 year period.

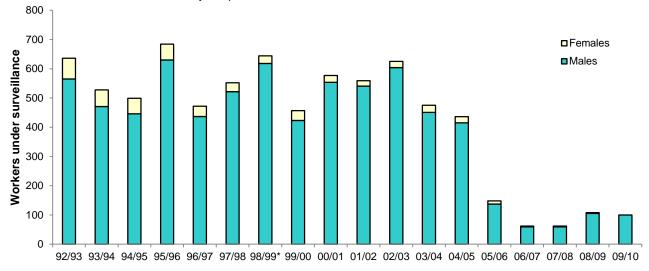


Figure 19 The total number of British lead workers under medical surveillance in the manufacture of pigments and colours sector since 1992/93 by sex

- In 1992/93 there were 565 males under surveillance in the manufacture of pigments and colours sector; by 2009/10 this had fallen to 100 males
- There were 4 young males under surveillance; 3 in 1998/99 and another in 1999/2000
- In 1992/93 there were 2 males (0.4% of male workers) with a recorded blood-lead level at or above 70µg/100ml; this reduced to none in 2009/10
- In 1992/93 there were 9 males (1.6% of male workers) with a recorded blood-lead level at or above 60µg/100ml; this reduced to none in 2009/10
- No young male has been recorded with high blood-lead levels (a blood-lead level at or above 50µg/100ml)
- The number of male workers under medical surveillance who were suspended from working with lead has fluctuated between 0 and 2 over the 18 year period
- In 1992/93 the median male blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median male blood-lead level was under 20μg/100ml. Over the following 13 years the median male blood-lead level remained below 20μg/100ml and was within the range 10-19μg/100ml in 2009/10
- The proportion of males recorded with a blood-lead level >40μg/100ml has decreased from 8.3% of male workers in 1992/93 to 6.0% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement greater than 40μg/100ml decreased by 5% (Figure 20, left hand panel)
- The proportion of males recorded with a blood-lead level <10μg/100ml has decreased from 52.3% of male workers in 1998/99 to 24.0% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10μg/100ml decreased by 5% (Figure 20, right hand panel)

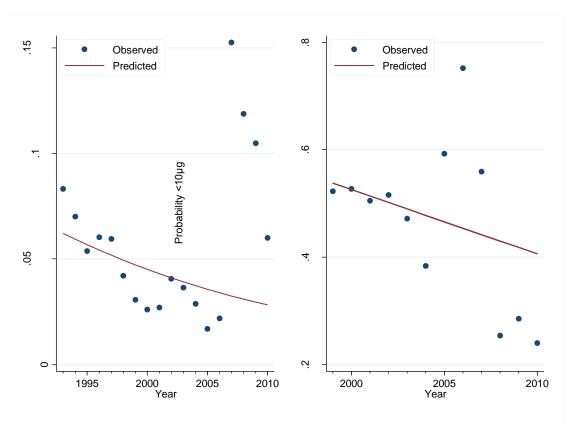


Figure 20 Probability of male blood-lead measurement by year [predicted by logistic regression]. The graph on the left is for the probability of a male blood-lead measurement >40µg/100ml. The graph on the right is for the probability of a male blood-lead measurement <10µg/100ml

- In 1992/93 there were 71 females under surveillance in the manufacture of pigments and colours sector; by 2009/10 this had fallen to none
- There were 2 young females under surveillance in 2006/07
- Over the 18 year period there was 1 female with a recorded blood-lead level at or above 40μg/100ml; in 1998/99 (3.8% of female workers)
- Over the 14 year period in which lower blood-lead level data is available there were 2 females with a recorded blood-lead level at or above 30μg/100ml; one in each of 1997/98 (3.3% of female workers) and 1998/99 (3.8% of female workers)
- There was 1 female worker under medical surveillance who was suspended from working with lead in 1998/99
- In 1992/93 the median female blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median female blood-lead level was under 20μg/100ml. Over the following 12 years the median female blood-lead level reduced to under 25μg/100ml in 2008/09 (No females were under medical surveillance in this sector in 2009/10)
- The proportion of females recorded with a blood-lead level >25µg/100ml has decreased from 5.7% of female workers in 1996/97 to 0% of female workers since 2004/05
- The proportion of females recorded with a blood-lead level <10μg/100ml has fluctuated over the period with 76.9% of female workers in 1998/99 and 85.7% of female workers in 2004/05 (No females were under medical surveillance in this sector in 2009/10)

Sector 06: Potteries, glazes and transfers

The number of workers under medical surveillance in the potteries, glazes and transfers sector fell by 94% from 465 in 1992/93 to 26 in 2009/10. The number of young people (under 18 years) under medical surveillance has been low; with 4 individuals under surveillance in 2000/01 and none since 2004/05.

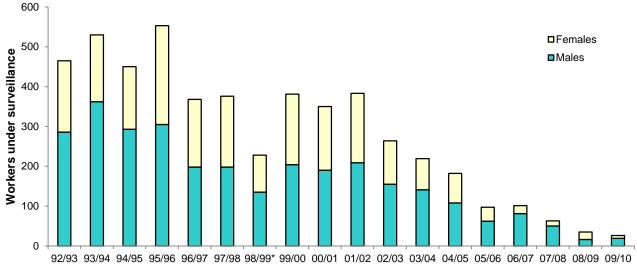


Figure 21 The total number of British lead workers under medical surveillance in the potteries, glazes and transfers sector since 1992/93 by sex

- In 1992/93 there were 286 males under surveillance in the potteries, glazes and transfers sector; by 2009/10 this had fallen to 19 males
- There were 5 records of young males under surveillance, 2 in 1999/2000 and 2000/01 and another in 2002/03
- In each of 1993/94, 1997/98, 2002/03 and 2003/04, there was 1 male with a recorded blood-lead level at or above 70µg/100ml
- In 1992/93 there were 4 males (1.4% of male workers) with a recorded blood-lead level at or above 60µg/100ml; this reduced to none in 2009/10
- No young males have been recorded with high blood-lead levels (a blood-lead level at or above 50µg/100ml)
- There were 9 male workers under medical surveillance who were suspended from working with lead over the 18 year period
- In 1992/93 the median male blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median male blood-lead level was under 20μg/100ml. Over the following 13 years the median male blood-lead level was relatively stable and was within the range 10-19μg/100ml in 2009/10
- The proportion of males recorded with a blood-lead level >40μg/100ml has decreased from 12.9% of male workers in 1992/93 to 0% of male workers in 2008/09 and 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement greater than 40μg/100ml decreased by 13% (Figure 22, left hand panel)
- The proportion of males recorded with a blood-lead level <10μg/100ml has increased from 18.5% of male workers in 1998/99 to 54.0% of male workers in 2007/08 then decreased to 10.5% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10μg/100ml increased by 10% (Figure 22, right hand panel)

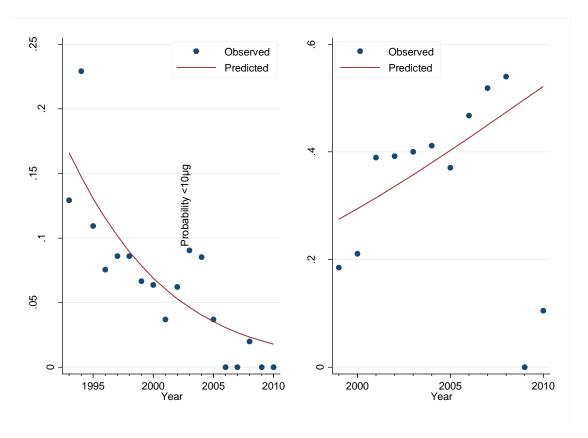


Figure 22 Probability of male blood-lead measurement by year [predicted by logistic regression]. The graph on the left is for the probability of a male blood-lead measurement >40μg/100ml. The graph on the right is for the probability of a male blood-lead measurement <10μg/100ml

- In 1992/93 there were 179 females under surveillance in the potteries, glazes and transfers sector; by 2009/10 this had fallen to 7 females
- There were 5 records of young females under surveillance, 2 in 2000/01 and 2003/04 and another in 1998/99
- In 1992/93 there were 5 females (2.8% of female workers) with a recorded blood-lead level at or above 40μg/100ml; this reduced to none in 2009/10
- In 1996/97 (the first year in which lower blood-lead level data is available) there were 6 females (3.5% of female workers) with a recorded blood-lead level at or above 30μg/100ml; this reduced to none in 2009/10
- The number of female workers under medical surveillance who were suspended from working with lead has been low, with 6 suspensions over the 18 year period
- In 1992/93 the median female blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median female blood-lead level was under 20μg/100ml. Over the following 13 years the median female blood-lead level reduced to under 10μg/100ml in 2009/10
- The proportion of females recorded with a blood-lead level >25µg/100ml has decreased from 8.2% of female workers in 1996/97 to 0% of female workers since 2006/07
- The proportion of females recorded with a blood-lead level <10μg/100ml has increased from 53.8% of female workers in 1998/99 to 85.7% of female workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10μg/100ml increased by 18% (Figure 23)

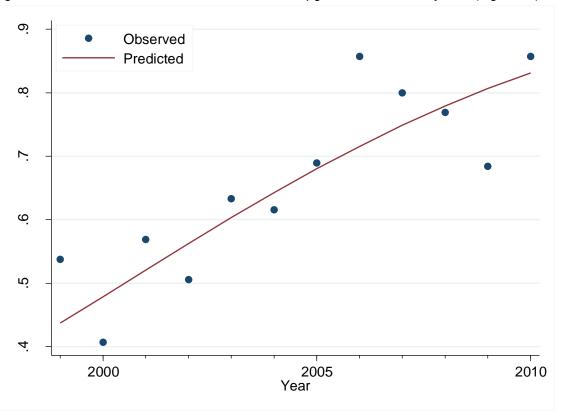


Figure 23 Probability of a female blood-lead measurement <10μg/100ml by year [predicted by logistic regression]

Sector 07: Manufacture of inorganic and organic compounds

The number of workers under medical surveillance in the manufacture of inorganic and organic compounds sector fell by 90% from 2,620 in 1992/93 to 270 in 2009/10. There were 3 young people (under 18 years) under medical surveillance in 2000/01.

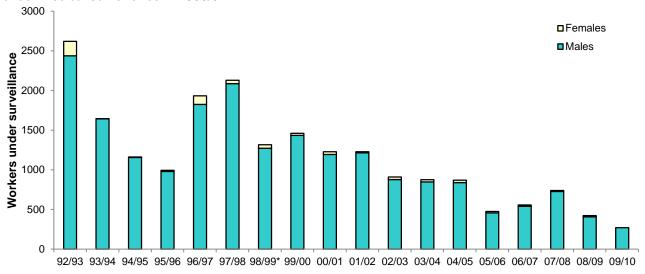


Figure 24 The total number of British lead workers under medical surveillance in the manufacture of inorganic and organic compounds sector since 1992/93 by sex

- In 1992/93 there were 2,438 males under surveillance in the manufacture of inorganic and organic compounds sector; by 2009/10 this had fallen to 270 males
- There were 3 young males under surveillance in 2000/01
- In 1992/93 there was 1 male (0.1% of male workers) with a recorded blood-lead level at or above 70µg/100ml; this reduced to none in 2009/10
- In 1992/93 there were 16 males (0.6% of male workers) with a recorded blood-lead level at or above 60µg/100ml; this reduced to none in 2009/10
- No young males have been recorded with high blood-lead levels (a blood-lead level at or above 50µg/100ml)
- The number of male workers under medical surveillance who were suspended from working with lead has fluctuated between none and 6 over the 18 year period
- In 1992/93 the median male blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median male blood-lead level was under 20μg/100ml. Over the following 13 years the median male blood-lead level reduced to under 10μg/100ml in 2009/10
- The proportion of males recorded with a blood-lead level >40μg/100ml has increased from 4.3% of male workers in 1992/93 to 9.9% of male workers in 2002/03, then decreased to 3.3% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement greater than 40μg/100ml increased by 5% (Figure 25)
- The proportion of males recorded with a blood-lead level <10µg/100ml has increased from 30.1% of male workers in 1998/99 to 54.1% of male workers in 2009/10

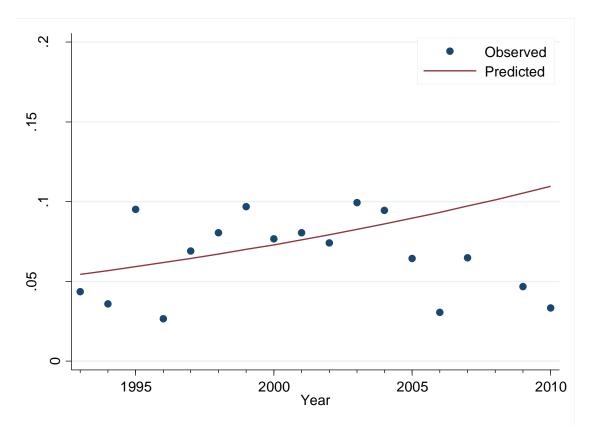


Figure 25 Probability of a male blood-lead measurement >40μg/100ml by year [predicted by logistic regression]

- In 1992/93 there were 182 females under surveillance in the manufacture of inorganic and organic compounds sector; by 2009/10 this had fallen to no females
- No young females were under medical surveillance over the 18 year period
- Over the 18 year period there was 1 female with a recorded blood-lead level at or above 40μg/100ml; in 1999/00 (3.8% of female workers)
- Over the 14 year period in which lower blood-lead level data is available there were 3 females with a recorded blood-lead level at or above 30μg/100ml; 1 in each of 1999/00 (3.8% of female workers), 2001/02 (6.7% of female workers) and 2002/03 (3.0% of female workers)
- There were 2 records of female workers under medical surveillance who were suspended from working with lead; one in 2001/02 and another in 2002/03
- In 1992/93 the median female blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median female blood-lead level was under 20μg/100ml. Over the following 13 years the median female blood-lead level reduced to under 10μg/100ml in 2008/09 (No females were under medical surveillance in this sector in 2009/10)
- The proportion of females recorded with a blood-lead level >25µg/100ml has decreased from 0.9% of female workers in 1996/97 to 0% of female workers since 2006/07
- The proportion of females recorded with a blood-lead level <10µg/100ml has increased from 75.0% of female workers in 1998/99 to 87.5% of female workers in 2008/09 (No females were under medical surveillance in this sector in 2009/10)

Sector 08: Shipbuilding, repairing and breaking

The number of workers under medical surveillance in the shipbuilding, repairing and breaking sector remained relatively stable (at between 100 and 150 individuals) up to 1998/99 then rose in 1999/2000 and 2003/04, before falling back to its previous level in 2009/10. There were 3 young people (under 18 years) under medical surveillance in 2003/04.

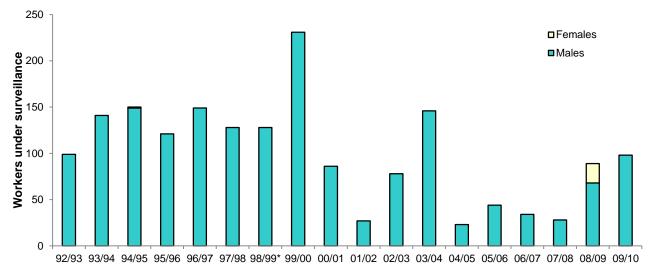


Figure 26 The total number of British lead workers under medical surveillance in the shipbuilding, repairing and breaking sector since 1992/93 by sex

- In 1992/93 there were 99 males under surveillance in the shipbuilding, repairing and breaking sector; by 2009/10 this level had remained with 98 males under surveillance; after an increase to a high of 231 in 1999/2000 and a decrease to a low of 23 in 2004/05
- There were 3 young males under surveillance in 2003/04
- Over the 18 year period there was 1 male with a recorded blood-lead level at or above 70μg/100ml; in 2003/04 (0.7% of male workers)
- In 1992/93 there was 1 male (1.0% of male workers) with a recorded blood-lead level at or above 60µg/100ml; this reduced to no males in 2009/10
- None of the young males were recorded with a high blood-lead level (a blood-lead level at or above 50µg/100ml)
- Over the 18 year period there were 5 records of male workers under medical surveillance who were suspended from working with lead
- In 1992/93 the median male blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median male blood-lead level was under 20μg/100ml. Over the following 13 years the median male blood-lead level reduced to under 10μg/100ml in 2009/10
- The proportion of males recorded with a blood-lead level >40µg/100ml has decreased from 5.1% of male workers in 1992/93 to 0% of male workers in 2009/10
- The proportion of males recorded with a blood-lead level <10µg/100ml has increased from 43.8% of male workers in 1998/99 to 94.9% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10µg/100ml increased by 19% (Figure 27)

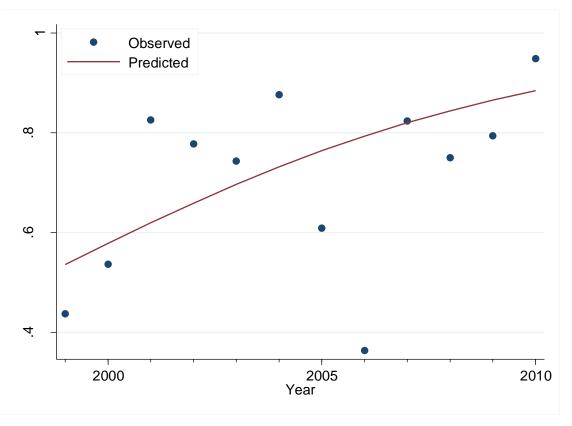


Figure 27 Probability of a male blood-lead measurement <10µg/100ml by year [predicted by logistic regression]

- In two years females have been under surveillance in the shipbuilding, repairing and breaking sector; 1 female in 1994/95 and 21 females in 2008/09
- No young females were under surveillance between 1998/99 and 2009/10
- Over the 18 year period there were no females with a recorded blood-lead level at or above 40µg/100ml
- Over the 14 year period in which lower blood-lead level data is available there were no females with a recorded blood-lead level at or above 30µg/100ml
- No female workers under medical surveillance were suspended from working with lead over the 18 year period
- In 1994/95 the median female blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 2008/09 the median female blood-lead level was under 10μg/100ml
- Over the 14 year period from 1996/97 no females were recorded with a blood-lead level >25µg/100ml
- There was only one year when any females were recorded with a blood-lead level <10µg/100ml, this was 2008/09 with 76.2% of female workers

Sector 09: Demolition industry

The number of workers under medical surveillance in the demolition sector fell by 50% from 651 in 1992/93 to 328 in 2009/10. No young people (under 18 years) were under medical surveillance over the 18 year period.

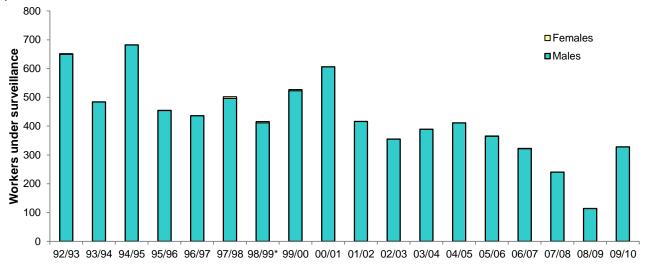


Figure 28 The total number of British lead workers under medical surveillance in the demolition sector since 1992/93 by sex

- In 1992/93 there were 650 males under surveillance in the demolition sector; by 2009/10 this had fallen to 328 males
- No young males have been under surveillance in the demolition sector
- In 1992/93 there were 18 males (2.8% of male workers) with a recorded blood-lead level at or above 70μg/100ml; this reduced to 1 in 2009/10 (0.3% of male workers)
- In 1992/93 there were 39 males (6.0% of male workers) with a recorded blood-lead level at or above 60µg/100ml; this reduced to 1 male (0.3% of male workers) in 2009/10
- The number of male workers under medical surveillance who were suspended from working with lead has steadily reduced from 16 in 1992/93 to none in 2009/10; after an increase to 29 in 1995/96
- In 1992/93 the median male blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median male blood-lead level was within the range 25-29μg/100ml. Over the following 13 years the median male blood-lead level reduced to within the range 10-19μg/100ml in 2009/10
- The proportion of males recorded with a blood-lead level >40μg/100ml has decreased from 24.2% of male workers in 1992/93 to 2.7% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement greater than 40μg/100ml decreased by 13% (Figure 29, left hand panel)
- The proportion of males recorded with a blood-lead level <10μg/100ml has increased from 41.3% of male workers in 1998/99 to 61.4% of male workers in 2008/09 and decreased to 39.0% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10μg/100ml increased by 8% (Figure 29, right hand panel)

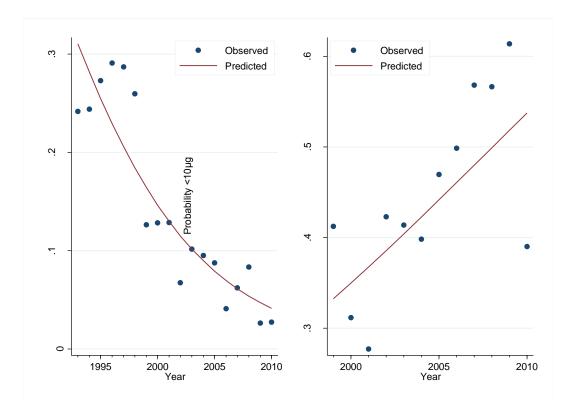


Figure 29 Probability of male blood-lead measurement by year [predicted by logistic regression]. The graph on the left is for the probability of a male blood-lead measurement >40μg/100ml. The graph on the right is for the probability of a male blood-lead measurement <10μg/100ml

- In 1992/93 there was 1 female under surveillance in the demolition sector; by 1997/98 this had risen to 5 females. There were no females under surveillance from 2007/08 to 2009/10
- No young females were under surveillance between 1998/99 and 2009/10
- Over the 18 year period there were no females with a recorded blood-lead level at or above 40µg/100ml
- Over the 14 year period in which lower blood-lead level data is available there were no females with a recorded blood-lead level at or above 30µg/100ml
- No female workers under medical surveillance were suspended from working with lead over the 18 year period
- In 1992/93 the median female blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 2006/07 the median female blood-lead level had fallen to under 25μg/100ml (No females were under medical surveillance in this sector from 2007/08 to 2009/10)
- Over the 14 year period from 1996/97 all females were recorded with a blood-lead level <25 µg/100ml

Sector 10: Painting of buildings and vehicles

The number of workers under medical surveillance in the painting of building and vehicles sector fell by 61% from 895 in 1992/93 to 350 in 2009/10. There were 6 records for young people (under 18 years) under medical surveillance since 1998/99

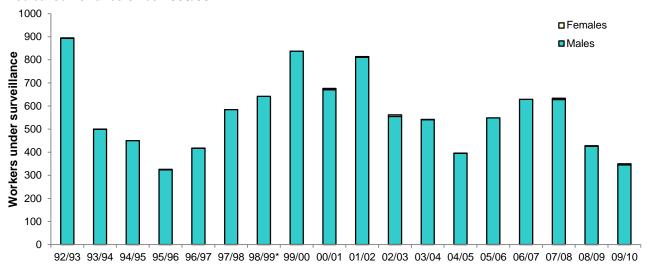


Figure 30 The total number of British lead workers under medical surveillance in the painting of building and vehicles sector since 1992/93 by sex

- In 1992/93 there were 893 males under surveillance in the painting of building and vehicles sector; by 2009/10 this had fallen to 345 males
- There were 6 records of young males under surveillance; 3 in 2007/08, and 1 in each of the three years 2002/03, 2008/09 and 2009/10
- In 1992/93 there were 13 males (1.5% of male workers) with a recorded blood-lead level at or above 70μg/100ml; this reduced to none in 2009/10
- In 1992/93 there were 30 males (3.4% of male workers) with a recorded blood-lead level at or above 60µg/100ml; this reduced to 3 males (0.9% of male workers) in 2009/10
- None of the young males were recorded with a high blood-lead levels (a blood-lead level at or above 50µg/100ml)
- The number of male workers under medical surveillance who were suspended from working with lead has varied from 13 in 1992/93 up to 28 in 2001/02 and down to 4 in 2009/10
- In 1992/93 the median male blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median male blood-lead level was under 20μg/100ml. Over the following 13 years the median male blood-lead level remained under 20μg/100ml and was under 10μg/100ml in 2009/10
- The proportion of males recorded with a blood-lead level >40μg/100ml has increased from 8.7% of male workers in 1992/93 to 15.0% of male workers 2001/02 then decreased to 7.0% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement greater than 40μg/100ml increased by 2% (Figure 31, left hand panel)
- The proportion of males recorded with a blood-lead level <10μg/100ml has increased from 44.1% of male workers in 1998/99 to 54.5% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10μg/100ml increased by 3% (Figure 31, right hand panel)

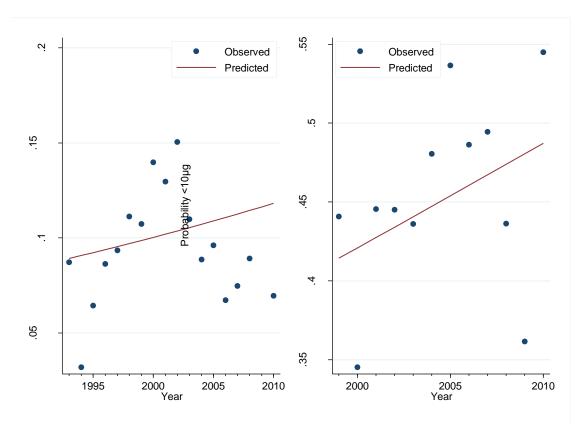


Figure 31 Probability of male blood-lead measurement by year [predicted by logistic regression]. The graph on the left is for the probability of a male blood-lead measurement >40μg/100ml. The graph on the right is for the probability of a male blood-lead measurement <10μg/100ml

- In 1992/93 there were 2 females under surveillance in the painting of building and vehicles sector; by 2009/10 this had risen to 5 females
- There were no young females under surveillance between 1998/99 and 2009/10
- Over the 18 year period there were no females with a recorded blood-lead level at or above 40μg/100ml
- Over the 14 year period in which lower blood-lead level data is available there were no females with a recorded blood-lead level at or above 30μg/100ml
- In 2000/01 there was 1 female worker under medical surveillance who was suspended from working with lead
- In 1992/93 the median female blood-lead level was under 40µg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median female blood-lead level was under 25µg/100ml. Over the following 13 years the median female blood-lead level reduced to under 10µg/100ml in 2009/10
- Over the 14 year period from 1996/97 all females were recorded with a blood-lead level <25µg/100ml

Sector 11: Work with metallic lead and lead containing alloys

The number of workers under medical surveillance in the work with metallic lead and lead containing alloys sector fell by 75% from 1,888 in 1992/93 to 466 in 2009/10. The number of young people (under 18 years) under medical surveillance has varied from none in 2006/07 and 2007/08 to 18 in 2005/06.

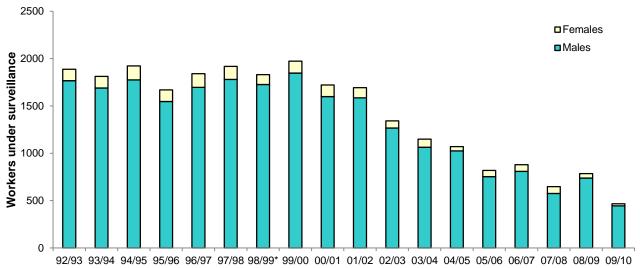


Figure 32 The total number of British lead workers under medical surveillance in the work with metallic lead and lead containing alloys sector since 1992/93 by sex

- In 1992/93 there were 1,767 males under surveillance in the work with metallic lead and lead containing alloys sector; by 2009/10 this had fallen to 444 males
- The number of young males under surveillance has decreased from 5 in 1998/99 to 2 in 2009/10; after an increase to 12 in 2002/03
- In 1992/93 there were 6 males (0.3% of male workers) with a recorded blood-lead level at or above 70μg/100ml; this reduced to none in 2009/10
- In 1992/93 there were 41 males (2.3% of male workers) with a recorded blood-lead level at or above 60µg/100ml; this reduced to 1 male (0.2% of male workers) in 2009/10
- Over the course of the regulations no young males were recorded with high blood-lead levels (a blood-lead level at or above 50µg/100ml)
- The number of male workers under medical surveillance who were suspended from working with lead has steadily reduced from 10 in 1992/93 to 1 in 2009/10
- In 1992/93 the median male blood-lead level was under 40µg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median male blood-lead level was under 20µg/100ml. Over the following 13 years the median male blood-lead level remained under 20µg/100ml and was within the range 10-19µg/100ml in 2009/10
- The proportion of males recorded with a blood-lead level >40μg/100ml has decreased from 16.0% of male workers in 1992/93 to 7.2% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement greater than 40μg/100ml decreased by 5% (Figure 33, left hand panel)
- The proportion of males recorded with a blood-lead level <10μg/100ml has increased from 27.9% of male workers in 1998/99 to 30.2% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10μg/100ml increased by 2% (Figure 33, right hand panel)

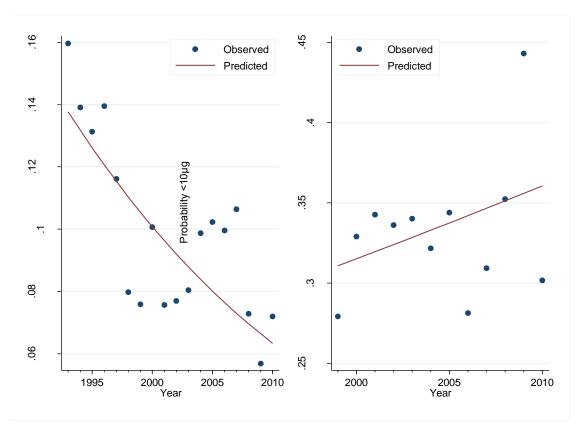


Figure 33 Probability of male blood-lead measurement by year [predicted by logistic regression]. The graph on the left is for the probability of a male blood-lead measurement >40μg/100ml. The graph on the right is for the probability of a male blood-lead measurement <10μg/100ml

Females under surveillance

- In 1992/93 there were 121 females under surveillance in the work with metallic lead and lead containing alloys sector; by 2009/10 this had fallen to 22 females
- The number of young females under surveillance has varied over the period with a high of 10 in 2005/06
- In 1992/93 there was 1 female (0.8% of female workers) with a recorded blood-lead level at or above 40µg/100ml; this reduced to none in 2009/10
- In 1996/97 (the first year in which lower blood-lead level data is available) there were 8 females (5.5% of female workers) with a recorded blood-lead level at or above 30μg/100ml; this reduced to none in 2009/10
- The number of female workers under medical surveillance who were suspended from working with lead has been low, with 9 suspensions over the 18 year period
- In 1992/93 the median female blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median female blood-lead level was under 20μg/100ml. Over the following 13 years the median female blood-lead level reduced to under 10μg/100ml in 2009/10
- The proportion of females recorded with a blood-lead level >25μg/100ml has decreased from 12.4% of female workers in 1996/97 to 0% of female workers from 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10μg/100ml decreased by 20% (Figure 34, left hand panel)
- The proportion of females recorded with a blood-lead level <10μg/100ml has increased from 55.2% of female workers in 1998/99 to 77.3% of female workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10μg/100ml increased by 8% (Figure 34, right hand panel)

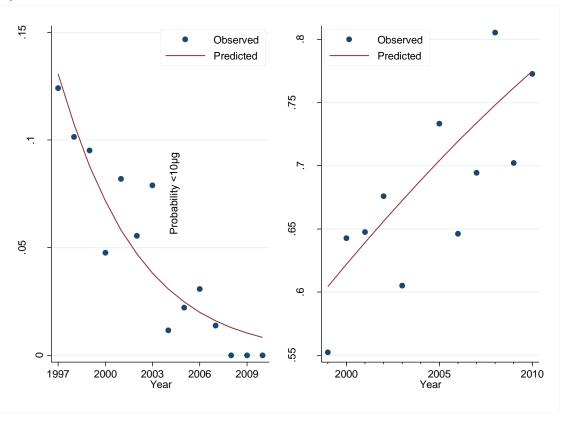


Figure 34 Probability of male blood-lead measurement by year [predicted by logistic regression]. The graph on the left is for the probability of a female blood-lead measurement >25μg/100ml. The graph on the right is for the probability of a female blood-lead measurement <10μg/100ml

Sector 12: Other processes

The number of workers under medical surveillance in other processes fell by 32% from 3,054 in 1992/93 to 2,080 in 2009/10. The number of young people (under 18 years) under medical surveillance has also decreased from 7 individuals in 1998/99 to 2 individuals in 2009/10; after an increase to 13 individuals in 2003/04.

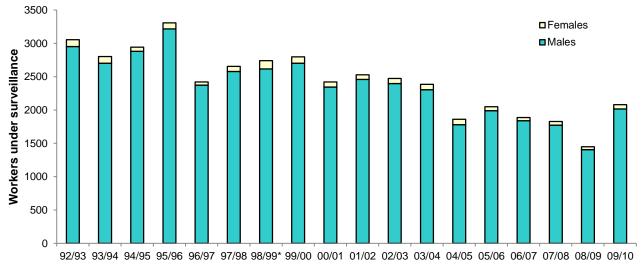


Figure 35 The total number of British lead workers under medical surveillance in other processes since 1992/93 by sex

Males under surveillance

- In 1992/93 there were 2,951 males under surveillance in other processes; by 2009/10 this had fallen to 2.015 males
- The number of young males under surveillance has decreased from 4 in 1998/99 to 2 in 2009/10, after a rise to 12 in 2003/04
- In 1992/93 there were 16 males (0.5% of male workers) with a recorded blood-lead level at or above 70μg/100ml; this reduced to 1 male (<0.1% of male workers) in 2009/10
- In 1992/93 there were 46 males (1.5% of male workers) with a recorded blood-lead level at or above 60µg/100ml; this reduced to 4 males (0.2% of male workers) in 2009/10
- Over the course of the regulations no young male has been recorded with a high blood-lead levels (a blood-lead level at or above 50µg/100ml)
- The number of male workers under medical surveillance who were suspended from working with lead has reduced from 8 in 1992/93 to 2 in 2009/10, after an increase corresponding to the reductions in the suspension/action levels in 1998/99
- In 1992/93 the median male blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median male blood-lead level was under 20μg/100ml. Over the following 13 years the median male blood-lead level remained under 20μg/100ml and was within the range 10-19μg/100ml in 2009/10
- The proportion of males recorded with a blood-lead level >40μg/100ml has decreased from 8.7% of male workers in 1992/93 to 6.2% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement greater than 40μg/100ml decreased by 3%. (Figure 36, left hand panel)
- The proportion of males recorded with a blood-lead level <10μg/100ml has increased from 40.2% of male workers in 1998/99 to 48.9% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10μg/100ml increased by 3%. (Figure 36, right hand panel)

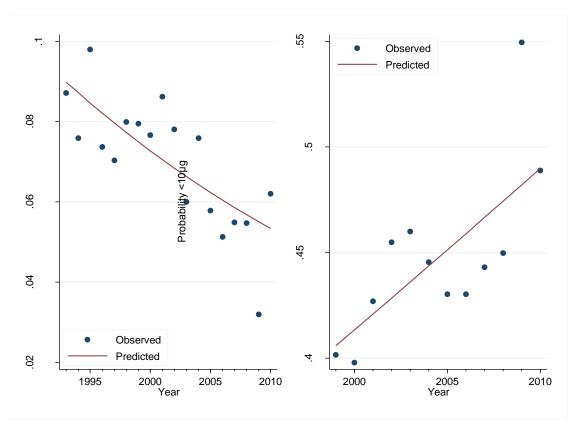


Figure 36 Probability of male blood-lead measurement by year [predicted by logistic regression]. The graph on the left is for the probability of a male blood-lead measurement >40μg/100ml. The graph on the right is for the probability of a male blood-lead measurement <10μg/100ml

Females under surveillance

- In 1992/93 there were 103 females under surveillance in other processes; by 2009/10 this had fallen to 65 females
- The number of young females under surveillance has decreased over the period with a high of 3 in 1998/99 and none between 2007/08 and 2009/10
- In 1992/93 there were no females with a recorded blood-lead level at or above 40μg/100ml; this increased to 5 females in 1998/99 (4.1% of female workers) and then reduced to none in 2009/10
- In 1996/97 (the first year in which lower blood-lead level data is available) there were 3 females (6.3% of female workers) with a recorded blood-lead level at or above 30µg/100ml; this reduced to none in 2009/10
- There were no females suspended before the new suspension limits in 1998/99; after which the number of female workers under medical surveillance who were suspended from working with lead fell from 5 in 1998/99 to none in 2009/10
- In 1992/93 the median female blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median female blood-lead level was under 20μg/100ml. Over the following 13 years the median female blood-lead level reduced to under 10μg/100ml in 2009/10
- The proportion of females recorded with a blood-lead level >25µg/100ml has decreased from 6.2% of female workers in 1996/97 to 1.5% of female workers in 2009/10
- The proportion of females recorded with a blood-lead level <10µg/100ml has increased from 57.4% of female workers in 1998/99 to 67.7% of female workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10µg/100ml increased by 9% (Figure 39)

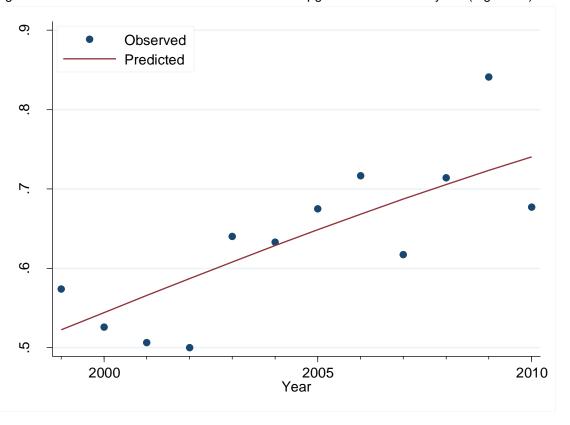


Figure 37 Probability of a female blood-lead measurement <10μg/100ml by year [predicted by logistic regression]

Sector 13: Scrap industry

The number of workers under medical surveillance in the scrap industry more than tripled from 146 in 1992/93 to 537 in 2009/10. There were 5 records of young people (under 18 years) under medical surveillance; 2 in each of the years 2001/02 and 2003/04 and another in 2009/10.

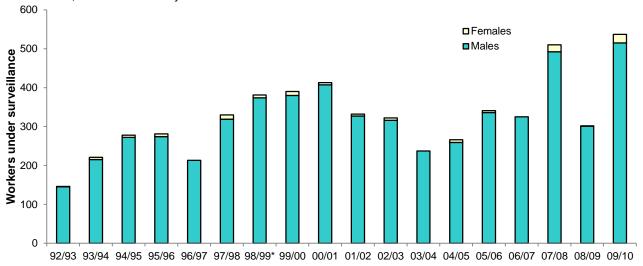


Figure 38 The total number of British lead workers under medical surveillance in scrap industry since 1992/93 by sex

Males under surveillance

- In 1992/93 there were 145 males under surveillance in the scrap industry; by 2009/10 this had risen to 515 males
- There were 5 young males under surveillance over the period from 1998/99 to 2009/10
- In 1992/93 there were 10 males (6.9% of male workers) with a recorded blood-lead level at or above 70μg/100ml; this reduced to none in 2006/07 then increased to 11 males (2.1% of male workers) in 2009/10
- In 1992/93 there were 23 males (15.9% of male workers) with a recorded blood-lead level at or above 60μg/100ml; this reduced to 1 male (0.3% of male workers) in 2006/07 then increased to 36 (7.0% of male workers) in 2009/10
- Over the course of the regulations 1 young male has been recorded with high blood-lead levels (a blood-lead level at or above 50µg/100ml) in 2003/04, this individual is not included in the figure stated above
- The number of male workers under medical surveillance who were suspended from working with lead has steadily reduced from 10 in 1992/93 to 1 in 2008/09; followed by an increase to 37 in 2009/10
- In 1992/93 the median male blood-lead level was under 40μg/100ml (no data are available to narrow this down to a range). In 1996/97 (the first year lower blood-lead ranges were collected) the median male blood-lead level was within the range 25-29μg/100ml. Over the following 13 years the median male blood-lead level reduced to under 10μg/100ml in 2009/10
- The proportion of males recorded with a blood-lead level >40μg/100ml has decreased from 31.0% of male workers in 1992/93 to 19.6% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement greater than 40μg/100ml decreased by 8%. (Figure 41, left hand panel)
- The proportion of males recorded with a blood-lead level <10µg/100ml has increased from 8.3% of male workers in 1998/99 to 50.3% of male workers in 2009/10. Each year, on average, the odds of having a recorded blood-lead measurement less than 10µg/100ml increased by 22%. (Figure 41, right hand panel)

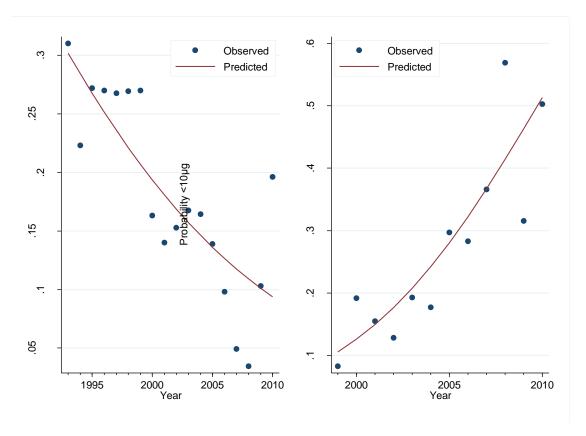


Figure 39 Probability of male blood-lead measurement by year [predicted by logistic regression]. The graph on the left is for the probability of a male blood-lead measurement >40μg/100ml. The graph on the right is for the probability of a male blood-lead measurement <10μg/100ml

Females under surveillance

- In 1992/93 there was 1 female under surveillance in the scrap industry; by 2009/10 this had risen to 22 females
- There were no young females under surveillance over the period 1998/99 to 2009/10
- Over the 18 year period there were no females with a recorded blood-lead level at or above 40µg/100ml
- Over the 14 year period that lower blood-lead level data is available there were no females with a recorded blood-lead level at or above 30µg/100ml
- None of the female workers under medical surveillance were suspended from working with lead over the 18 year period
- In 1992/93 the median female blood-lead level was under 40µg/100ml (no data are available to narrow this down to a range). In 1997/98 (the first year lower blood-lead ranges were collected) the median female blood-lead level was under 20µg/100ml. Over the following 13 years the median female blood-lead level reduced to under 10µg/100ml in 2009/10
- There were two years when any females were recorded with a blood-lead level >25µg/100ml, these were 1998/99 with 14.3% of female workers and 1999/00 with 10.0% of female workers
- The proportion of females recorded with a blood-lead level <10µg/100ml has increased from 14.3% of female workers in 1998/99 to 95.5% of female workers in 2009/10

Appendix

The tables that follow are provided to supplement the figures and key points detailed in this report. The tables provide a breakdown of blood-lead level measurements undertaken each year by sex and industrial sector.

All workers under medical surveillance

Table 3 The breakdown of male lead workers under medical surveillance, by highest recorded blood-lead level [µg/100ml] and year (Figures are for the total number of male workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24µg	25-29µg	30-34µg	35-39µg		40-49µg	50-59µg	60-69µg	70-79µg	80+µg		Individuals Suspended	Median range
							15677	2260	1290	578	141	55	196	147	<40µg
92/93							78.4%	11.3%	6.4%	2.9%	0.7%	0.3%	1.0%		
22/24							13509	2038	972	476	154	50	204	116	<40µg
93/94							78.5%	11.8%	5.7%	2.8%	0.9%	0.3%	1.2%		
94/95							13304	1870	1023	432	153	39	192	121	<40µg
94/95							79.1%	11.1%	6.1%	2.6%	0.9%	0.2%	1.1%		
95/96							12364	1636	972	357	92	34	126	72	<40µg
95/90							80.0%	10.6%	6.3%	2.3%	0.6%	0.2%	0.8%		
96/97	695	9	1646	1487	1474	1258	12824	1761	1049	449	104	23	127	66	20-24µg
90/97	42.9	1%	10.2%	9.2%	9.1%	7.8%	79.1%	10.9%	6.5%	2.8%	0.6%	0.1%	0.8%		
97/98	823	8	1673	1613	1546	1299	14369	1849	930	265	74	36	110	55	20-24µg
31130	47.0	%	9.5%	9.2%	8.8%	7.4%	82.0%	10.6%	5.3%	1.5%	0.4%	0.2%	0.6%		
98/99*	4376 (21)	3876 (11)	1720 (3)	1635 (5)	1435	1246	14288 (40)	1686	903 (1)	251	55	16	71	179	20-24µg
30/33	25.4%	22.5%	10.0%	9.5%	8.3%	7.2%	83.1%	9.8%	5.3%	1.5%	0.3%	0.1%	0.4%		
99/00	4605 (26)	3748 (17)	1704 (1)	1699 (1)	1382	1233 (1)	14371 (46)	1578	671	165	37	10	47	117	20-24µg
33/00	27.4%	22.3%	10.1%	10.1%	8.2%	7.3%	85.4%	9.4%	4.0%	1.0%	0.2%	0.1%	0.3%		
00/01	4394 (20)	3231 (11)	1655 (1)	1436	1231 (1)	1097	13044 (33)	1559	627	134	34	13	47	81	20-24µg
00/01	28.5%	21.0%	10.7%	9.3%	8.0%	7.1%	84.6%	10.1%	4.1%	0.9%	0.2%	0.1%	0.3%		
01/02	4345 (8)	3083 (7)	1360 (1)	1441	1160 (1)	1065	12454 (17)	1356	614	121	20	12	32	100	10-19µg
01/02	29.8%	21.1%	9.3%	9.9%	8.0%	7.3%	85.4%	9.3%	4.2%	0.8%	0.1%	0.1%	0.2%		
02/03	3470 (8)	2608 (6)	1292 (3)	1174 (2)	992 (4)	918 (1)	10454 (24)	1180 (1)	469	102	28	12	40	68	20-24µg
02/00	28.3%	21.3%	10.6%	9.6%	8.1%	7.5%	85.4%	9.6%	3.8%	0.8%	0.2%	0.1%	0.3%		
03/04	3351 (16)	2471 (7)	1118 (3)	1023 (1)	855 (3)	710	9528 (30)	947 (1)	397 (1)	102	29	8	37	83 (1)	10-19µg
33/31	30.4%	22.4%	10.2%	9.3%	7.8%	6.4%	86.5%	8.6%	3.6%	0.9%	0.3%	0.1%	0.3%		
04/05	2855 (12)	2070 (6)	942 (3)	805 (1)	755 (3)	619 (1)	8046 (26)	770	338	85	23	5	28	66	10-19µg
	30.8%	22.3%	10.2%	8.7%	8.1%	6.7%	86.8%	8.3%	3.6%	0.9%	0.2%	0.1%	0.3%		
05/06	2484 (3)	1962 (5)	842	708 (3)	617	542 (1)	7155 (12)	721	315	64	15	8	23	59	10-19µg
	30.0%	23.7%	10.2%	8.6%	7.5%	6.5%	86.4%	8.7%	3.8%	0.8%	0.2%	0.1%	0.3%		
06/07	2718	1923 (1)	862 (1)	765 (2)	622	478	7368 (4)	699	232	48	16	13	29	28	10-19µg
	32.4%	23.0%	10.3%	9.1%	7.4%	5.7%	88.0%	8.3%	2.8%	0.6%	0.2%	0.2%	0.3%		
07/08	2812 (3)	1758 (3)	747	625	478 (1)	634	7054 (7)	450	206	34	5	3	8	29	10-19µg
	36.3%	22.7%	9.6%	8.1%	6.2%	8.2%	91.0%	5.8%	2.7%	0.4%	0.1%	0.0%	0.1%		
08/09	2262 (8)	1516 (3)	663 (4)	559 (3)	504 (1)	342	5846 (19)	457	204	48	6	2	8	16	10-19µg
	34.5%	23.1%	10.1%	8.5%	7.7%	5.2%	89.1%	7.0%	3.1%	0.7%	0.1%	0.0%	0.1%		
09/10	2562 (2)	1676 (3)	767 (1)	602	465 (1)	320	6392 (7)	360 (1)	112	37	7	8	15	51 (1)	10-19µg
	37.0%	24.2%	11.1%	8.7%	6.7%	4.6%	92.4%	5.2%	1.6%	0.5%	0.1%	0.1%	0.2%		

Table 4 The breakdown of female lead workers under medical surveillance, by highest recorded blood-lead level [µg/100ml] and year (Figures are for the total

number of female workers, of which the number under 18 years of age is given in brackets)

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Year	<10µg	10-19µg	20-24μg		25-29µg	30-34µg	35-39µg			40-49μg	50-59μg	60-69µg	70-79µg	80+µg		Individuals Suspended	Median range
92/93									1071	28	9	3	1	0	41	5	<40µg
92/93									96.3%	2.5%	0.8%	0.3%	0.1%	0.0%	3.7%		
93/94									801	15	8	3	2	2	30	12	<40µg
33/31									96.4%	1.8%	1.0%	0.4%	0.2%	0.2%	3.6%		
94/95									822	22	5	4	1	0	32	12	<40µg
									96.3%	2.6%	0.6%	0.5%	0.1%	0.0%	3.7%		
95/96									921	19	4	3	2	0	28	12	<40µg
			T						97.0%	2.0%	0.4%	0.3%	0.2%	0.0%	3.0%		
96/97		23	84	807	51	26	18	44	902	12	4	3	1	0	20	3	<20µg
		.4%	9.1%	87.5%	5.5%	2.8%	2.0%	4.8%	97.8%	1.3%	0.4%	0.3%	0.1%	0.0%	2.2%		
97/98		86	82	768	30	30	10	40	838	7	3	0	0	0	10	3	<20µg
		.9%	9.7%	90.6%	3.5%	3.5%	1.2%	4.7%	98.8%	0.8%	0.4%	0.0%	0.0%	0.0%	1.2%		10.10
98/99*	385 (3)	243 (2)	61	689 (5)	37 (1)	16	16	32	758 (6)	14	1	3	0	0	18	18	10-19µg
	49.6%	31.3%	7.9%	88.8% 759 (7)	4.8%	2.1%	2.1%	4.1%	97.7%	1.8%	0.1%	0.4%	0.0%	0.0%	2.3%	7 (4)	440
99/00	412 (6) 50.7%	289 (1) 35.5%	58 7.1%	93.4%	32 3.9%	11 1.4%	4 (1) 0.5%	15 (1) 1.8%	806 (8) 99.1%	0.5%	0.4%	0.0%	0.0%	0.0%	0.9%	7 (1)	<10µg
	381 (6)	217 (9)	50	648 (15)	3.9 %	1.4 /0	8	25	709 (15)	5	0.4 /6	0.0 %	0.0 %	0.0%	7	13	<10µg
00/01	53.2%	30.3%	7.0%	90.5%	5.0%	2.4%	1.1%	3.5%	99.0%	0.7%	0.3%	0.0%	0.0%	0.0%	1.0%	15	Тору
	330 (3)	199	31	560 (3)	36	14	3	17	613 (3)	4	3	0.070	0.070	0.070	7	10	<10µg
01/02	53.2%	32.1%	5.0%	90.3%	5.8%	2.3%	0.5%	2.7%	98.9%	0.6%	0.5%	0.0%	0.0%	0.0%	1.1%	.0	
	325 (3)	141	25	491 (3)	19	9	7	16	526 (3)	1	1	0	0	0	2	5	<10µg
02/03	61.6%	26.7%	4.7%	93.0%	3.6%	1.7%	1.3%	3.0%	99.6%	0.2%	0.2%	0.0%	0.0%	0.0%	0.4%		, ,
(300 (5)	101 (1)	26	427 (6)	19 (1)	10	8	18	464 (7)	2	1	0	0	0	3	10	<10µg
03/04	64.2%	21.6%	5.6%	91.4%	4.1%	2.1%	1.7%	3.9%	99.4%	0.4%	0.2%	0.0%	0.0%	0.0%	0.6%		
04/05	284	77	30	391	12	8	5	13	416	1	0	1	0	0	2	1	<10µg
04/05	67.9%	18.4%	7.2%	93.5%	2.9%	1.9%	1.2%	3.1%	99.5%	0.2%	0.0%	0.2%	0.0%	0.0%	0.5%		
05/06	227 (5)	73 (5)	18	318 (10)	11	7	2	9	338 (10)	2	0	0	0	0	2	1	<10µg
03/00	66.8%	21.5%	5.3%	93.5%	3.2%	2.1%	0.6%	2.6%	99.4%	0.6%	0.0%	0.0%	0.0%	0.0%	0.6%		
06/07	224 (2)	66 (2)	17	307 (4)	9	2	2	4	320 (4)	1	0	0	0	0	1	1	<10µg
00/01	69.8%	20.6%	5.3%	95.6%	2.8%	0.6%	0.6%	1.2%	99.7%	0.3%	0.0%	0.0%	0.0%	0.0%	0.3%		
07/08	245	47	13	305	8	2	1	3	316	1	0	0	0	0	1	0	<10µg
01700	77.3%	14.8%	4.1%	96.2%	2.5%	0.6%	0.3%	0.9%	99.7%	0.3%	0.0%	0.0%	0.0%	0.0%	0.3%		
08/09	191 (2)	50	14 (1)	255 (3)	7	3	3	6	268 (3)	0	0	0	0	0	0	1	<10µg
	71.3%	18.7%	5.2%	95.1%	2.6%	1.1%	1.1%	2.2%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
09/10	178	51	10	239	4	1	2	3	246	0	0	0	0	0	0	0	<10µg
	72.4%	20.7%	4.1%	97.2%	1.6%	0.4%	0.8%	1.2%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

Workers under medical surveillance in the smelting, refining, alloying and casting sector

Table 5 The breakdown of male lead workers under medical surveillance in the smelting, refining, alloying and casting sector, by highest recorded blood-lead level [μg/100ml] and year (Figures are for the total number of male workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24µg	25-29µg	30-34µg	35-39µg	<40μg	40-49μg	50-59μg	60-69µg	70-79µg	80+μg	70+μg	Median range
							4040	738	425	149	31	15	46	<40µg
92/93							74.8%	13.7%	7.9%	2.8%	0.6%	0.3%	0.9%	~40μg
							3550	579	335	85	14	4	18	<40µg
93/94							77.7%	12.7%	7.3%	1.9%	0.3%	0.1%	0.4%	.049
							3330	546	301	78	15	3	18	<40µg
94/95							77.9%	12.8%	7.0%	1.8%	0.4%	0.1%	0.4%	10
							2800	508	310	97	9	6	15	<40µg
95/96							75.1%	13.6%	8.3%	2.6%	0.2%	0.2%	0.4%	
00/07	11	53	342	338	367	363	2563	499	306	79	10	5	15	25-29µg
96/97	33.	3%	9.9%	9.8%	10.6%	10.5%	74.0%	14.4%	8.8%	2.3%	0.3%	0.1%	0.4%	
97/98	14	75	481	445	444	367	3212	504	213	36	14	0	14	25-29µg
97/98	37.	1%	12.1%	11.2%	11.2%	9.2%	80.7%	12.7%	5.4%	0.9%	0.4%	0.0%	0.4%	
98/99*	1119 (3)	933 (2)	463	477 (1)	425	378	3795 (6)	517	220 (1)	52	14	1	15	20-24µg
90/99	24.3%	20.3%	10.1%	10.4%	9.2%	8.2%	82.5%	11.2%	4.8%	1.1%	0.3%	0.0%	0.3%	
99/00	920 (4)	722 (4)	411	416	404	357	3230 (8)	402	131	19	6	0	6	20-24µg
99/00	24.3%	19.1%	10.9%	11.0%	10.7%	9.4%	85.3%	10.6%	3.5%	0.5%	0.2%	0.0%	0.2%	
00/01	964 (3)	705 (2)	426	364	368	294	3121 (5)	427	131	21	6	1	7	20-24µg
00/01	26.0%	19.0%	11.5%	9.8%	9.9%	7.9%	84.2%	11.5%	3.5%	0.6%	0.2%	0.0%	0.2%	
01/02	865	644 (1)	313	456	341	301	2920 (1)	372	125	26	4	1	5	20-24µg
01/02	25.1%	18.7%	9.1%	13.2%	9.9%	8.7%	84.7%	10.8%	3.6%	0.8%	0.1%	0.0%	0.1%	
02/03	325	507	315 (1)	315 (1)	286 (1)	262	2010 (3)	325	66	15	4	0	4	25-29µg
02/03	13.4%	21.0%	13.0%	13.0%	11.8%	10.8%	83.1%	13.4%	2.7%	0.6%	0.2%	0.0%	0.2%	
03/04	398	482 (1)	254 (1)	232 (1)	180	132	1678 (3)	149 (1)	79	23	6	2	8	20-24µg
00/01	20.5%	24.9%	13.1%	12.0%	9.3%	6.8%	86.6%	7.7%	4.1%	1.2%	0.3%	0.1%	0.4%	
04/05	267	394 (1)	188	181 (1)	153 (2)	118	1301 (4)	138	67	20	5	1	6	20-24µg
0 00	17.4%	25.7%	12.3%	11.8%	10.0%	7.7%	84.9%	9.0%	4.4%	1.3%	0.3%	0.1%	0.4%	
05/06	286	364	173	154	120	98	1195	96	37	9	4	1	5	20-24µg
	21.3%	27.1%	12.9%	11.5%	8.9%	7.3%	89.0%	7.2%	2.8%	0.7%	0.3%	0.1%	0.4%	
06/07	299	442 (1)	219 (1)	179 (2)	156	88	1383 (4)	94	23	4	1	0	1	20-24µg
	19.9%	29.4%	14.6%	11.9%	10.4%	5.8%	91.9%	6.2%	1.5%	0.3%	0.1%	0.0%	0.1%	
07/08	350	468	192	137	87	55	1289	37	9	3	0	0	0	10-19µg
	26.2%	35.0%	14.3%	10.2%	6.5%	4.1%	96.3%	2.8%	0.7%	0.2%	0.0%	0.0%	0.0%	
08/09	202 (6)	293 (2)	94	99 (1)	79	67	834 (9)	103	48	24	0	0	0	20-24µg
	20.0%	29.0%	9.3%	9.8%	7.8%	6.6%	82.7%	10.2%	4.8%	2.4%	0.0%	0.0%	0.0%	
09/10	306	439 (1)	207	157	122 (1)	49	1280 (2)	34	6	1	0	0	0	10-19µg
	23.2%	33.2%	15.7%	11.9%	9.2%	3.7%	96.9%	2.6%	0.5%	0.1%	0.0%	0.0%	0.0%	

Table 6 The breakdown of female lead workers under medical surveillance in the smelting, refining, alloying and casting sector, by highest recorded blood-lead level

[μg/100ml] and year (Figures are for the total number of female workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24µg		25-29μg	30-34µg	35-39µg			40-49µg	50-59µg	60-69µg	70-79µg	80+µg		Median range
92/93									136	4	0	0	0	0	4	<40µg
92/93									97.1%	2.9%	0.0%	0.0%	0.0%	0.0%	2.9%	
93/94									78	0	0	0	0	0	0	<40µg
33/31									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
94/95									103	0	0	0	0	0	0	<40µg
									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
95/96									89 97.8%	2 2.2%	0 0.0%	0.0%	0 0.0%	0 0.0%	2 2.2%	<40µg
	77		9	86	5	2	3	5	96	0	0.0 %	0.0 %	0.0 %	0.0 %	0	<20µg
96/97	80.2		9.4%	89.6%	5.2%	2.1%	3.1%	5.2%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	~20μg
	102		9.476	108	0	2.170	1	3.2 / 3	111	0.078	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	<20µg
97/98	91.9		5.4%	97.3%	0.0%	1.8%	0.9%	2.7%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	.20µ9
	93	43	15	151	10	2	3	5	166	0.070	0.070	0.070	0.070	0	0.070	<10µg
98/99*	56.0%	25.9%	9.0%	91.0%	6.0%	1.2%	1.8%	3.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1,3
	66 (1)	35	7	108 (1)	2	2	0	2	112 (1)	0	0	0	0	0	0	<10µg
99/00	58.9%	31.3%	6.3%	96.4%	1.8%	1.8%	0.0%	1.8%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
00/04	77 (2)	28 (8)	6	111 (10)	0	0	0	0	111 (10)	0	0	0	0	0	0	<10µg
00/01	69.4%	25.2%	5.4%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
01/02	51	35	2	88	3	0	1	1	92	0	0	0	0	0	0	<10µg
01/02	55.4%	38.0%	2.2%	95.7%	3.3%	0.0%	1.1%	1.1%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
02/03	53 (2)	9	0	62 (2)	0	1	0	1	63 (2)	0	0	0	0	0	0	<10µg
02/03	84.1%	14.3%	0.0%	98.4%	0.0%	1.6%	0.0%	1.6%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
03/04	42 (1)	5	0	47 (1)	0	1	0	1	48 (1)	0	0	0	0	0	0	<10µg
00/01	87.5%	10.4%	0.0%	97.9%	0.0%	2.1%	0.0%	2.1%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
04/05	32	5	1	38	0	0	0	0	38	1	0	0	0	0	1	<10µg
	82.1%	12.8%	2.6%	97.4%	0.0%	0.0%	0.0%	0.0%	97.4%	2.6%	0.0%	0.0%	0.0%	0.0%	2.6%	
05/06	43	2	0	45	0	0	0	0	45	1	0	0	0	0	1	<10µg
	93.5%	4.3%	0.0%	97.8%	0.0%	0.0%	0.0%	0.0%	97.8%	2.2%	0.0%	0.0%	0.0%	0.0%	2.2%	
06/07	50	4	2	56	0	0	0	0	56	0	0	0	0	0	0	<10µg
	89.3%	7.1%	3.6%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
07/08		44		44	0	0	0	0	44	0	0	0	0	0	0	<25µg
	40	100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-40
08/09	18	40.20/	0	22	0	0	0	0	22	0	0	0	0	0	0	<10µg
	81.8% 35	18.2%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<10
09/10	79.5%	8 18.2%	2.3%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0 0.0%	0.0%	<10µg
	79.5%	18.2%	2.3%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Workers under medical surveillance in the lead battery industry

Table 7 The breakdown of male lead workers under medical surveillance in the lead battery industry, by highest recorded blood-lead level [μg/100ml] and year (Figures are for the total number of male workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24µg	25-29µg	30-34µg	35-39µg	<40μg	40-49μg	50-59μg	60-69µg	70-79µg	80+µg	70+μg	Median range
00/00							2095	796	537	253	63	15	78	<40µg
92/93							55.7%	21.2%	14.3%	6.7%	1.7%	0.4%	2.1%	
93/94							1829	794	380	276	94	24	118	<40µg
93/94							53.8%	23.4%	11.2%	8.1%	2.8%	0.7%	3.5%	
94/95							2213	677	449	215	81	13	94	<40µg
3 4 /33							60.7%	18.6%	12.3%	5.9%	2.2%	0.4%	2.6%	
95/96							1819	612	421	175	51	3	54	<40µg
30/00							59.0%	19.9%	13.7%	5.7%	1.7%	0.1%	1.8%	
96/97	70	08	404	344	447	456	2359	714	540	285	76	13	89	35-39µg
30/01	17.	8%	10.1%	8.6%	11.2%	11.4%	59.2%	17.9%	13.5%	7.1%	1.9%	0.3%	2.2%	
97/98	85	59	290	390	472	460	2471	790	479	146	35	5	40	30-34µg
0.700		9%	7.4%	9.9%	12.0%	11.7%	62.9%	20.1%	12.2%	3.7%	0.9%	0.1%	1.0%	
98/99*	300	499 (1)	360	398	423	415	2395 (1)	718	453	124	23	2	25	30-34µg
00,00	8.1%	13.4%	9.7%	10.7%	11.4%	11.2%	64.5%	19.3%	12.2%	3.3%	0.6%	0.1%	0.7%	
99/00	440 (2)	566 (2)	363	456	387	418 (1)	2630 (5)	658	296	73	14	2	16	30-34µg
30/00	12.0%	15.4%	9.9%	12.4%	10.5%	11.4%	71.6%	17.9%	8.1%	2.0%	0.4%	0.1%	0.4%	
00/01	316	407 (1)	371	441	386 (1)	417	2338 (2)	656	319	59	10	2	12	30-34µg
00/01	9.3%	12.0%	11.0%	13.0%	11.4%	12.3%	69.1%	19.4%	9.4%	1.7%	0.3%	0.1%	0.4%	
01/02	186	351	298	347	348	381	1911	564	300	40	1	0	1	30-34µg
01/02	6.6%	12.5%	10.6%	12.3%	12.4%	13.5%	67.9%	20.0%	10.7%	1.4%	0.0%	0.0%	0.0%	
02/03	202	302 (1)	268	347	291	308	1718 (1)	484	253	56	13	5	18	30-34µg
02/03	8.0%	11.9%	10.6%	13.7%	11.5%	12.2%	67.9%	19.1%	10.0%	2.2%	0.5%	0.2%	0.7%	
03/04	373 (1)	318 (1)	266	268	270	262	1757 (2)	423	199	36	9	1	10	25-29µg
03/04	15.4%	13.1%	11.0%	11.1%	11.1%	10.8%	72.5%	17.4%	8.2%	1.5%	0.4%	0.0%	0.4%	
04/05	184	282	220 (1)	233	240	223	1382 (1)	358	163	32	6	1	7	30-34µg
0 1/00	9.5%	14.5%	11.3%	12.0%	12.4%	11.5%	71.2%	18.4%	8.4%	1.6%	0.3%	0.1%	0.4%	
05/06	226	252	190	203	218	240	1329	420	204	36	7	1	8	30-34µg
00/00	11.3%	12.6%	9.5%	10.2%	10.9%	12.0%	66.5%	21.0%	10.2%	1.8%	0.4%	0.1%	0.4%	
06/07	341	254	153	198	196	218	1360	379	141	27	4	3	7	30-34µg
00/01	17.8%	13.3%	8.0%	10.3%	10.2%	11.4%	71.1%	19.8%	7.4%	1.4%	0.2%	0.2%	0.4%	
07/08	432 (1)	155	102	111	82	84	966 (1)	102	41	4	0	0	0	10-19µg
01700	38.8%	13.9%	9.2%	10.0%	7.4%	7.5%	86.8%	9.2%	3.7%	0.4%	0.0%	0.0%	0.0%	
08/09	216 (1)	249	189 (1)	137 (1)	127	76	994 (3)	110	37	4	2	0	2	20-24µg
	18.8%	21.7%	16.5%	11.9%	11.1%	6.6%	86.7%	9.6%	3.2%	0.3%	0.2%	0.0%	0.2%	
09/10	233	280	184	170	119	111	1097	131	28	3	1	1	2	20-24µg
	18.5%	22.2%	14.6%	13.5%	9.4%	8.8%	87.0%	10.4%	2.2%	0.2%	0.1%	0.1%	0.2%	

Table 8 The breakdown of female lead workers under medical surveillance in the lead battery industry, by highest recorded blood-lead level [µg/100ml] and year

(Figures are for the total number of female workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24µg		25-29µg	30-34µg	35-39µg			40-49μg	50-59µg	60-69µg	70-79µg	80+µg		Median range
92/93									81	12	8	1	1	0	22	<40µg
92/93									78.6%	11.7%	7.8%	1.0%	1.0%	0.0%	21.4%	
93/94									80	9	7	3	2	2	23	<40µg
									77.7%	8.7%	6.8%	2.9%	1.9%	1.9%	22.3%	
94/95									110	17	4	4	1	0	26	<40µg
									80.9%	12.5%	2.9%	2.9%	0.7%	0.0%	19.1%	
95/96									134	16	4	3	2	0	25	<40µg
					1	1			84.3%	10.1%	2.5%	1.9%	1.3%	0.0%	15.7%	
96/97	85		18	103	15	12	9	21	139	10	4	1	1	0	16	<20µg
	54.8		11.6%	66.5%	9.7%	7.7%	5.8%	13.5%	89.7%	6.5%	2.6%	0.6%	0.6%	0.0%	10.3%	
97/98	82 57.7		16	98	17	15	2.00/	19	134	5	3	0	0	0	5.0%	<20µg
	13	⁷⁶ 26	11.3% 15	69.0% 54	12.0% 11	10.6% 12	2.8%	13.4%	94.4%	3.5%	2.1%	0.0%	0.0%	0.0%	5.6%	20-24µg
98/99*	13.7%	27.4%	15.8%	56.8%	11.6%	12.6%	8.4%	21.1%	89.5%	9.5%	1.1%	0.0%	0.0%	0.0%	10.5%	20-24μg
	23	38	13.6 %	75	16	12.0%	1	5	96	3.5 %	0	0.0%	0.0%	0.0 %	3	10-19µg
99/00	23.2%	38.4%	14.1%	75.8%	16.2%	4.0%	1.0%	5.1%	97.0%	3.0%	0.0%	0.0%	0.0%	0.0%	3.0%	10-13μg
	13 (2)	39	19	71 (2)	18	7	1.070	8	97 (2)	3	0.070	0.070	0.070	0.070	3	10-19µg
00/01	13.0%	39.0%	19.0%	71.0%	18.0%	7.0%	1.0%	8.0%	97.0%	3.0%	0.0%	0.0%	0.0%	0.0%	3.0%	
	28	23	12	63	11	6	2	8	82	0	1	0	0	0	1	10-19µg
01/02	33.7%	27.7%	14.5%	75.9%	13.3%	7.2%	2.4%	9.6%	98.8%	0.0%	1.2%	0.0%	0.0%	0.0%	1.2%	, ,
	20	25	11	56	11	4	4	8	75	0	0	0	0	0	0	10-19µg
02/03	26.7%	33.3%	14.7%	74.7%	14.7%	5.3%	5.3%	10.7%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
02/04	26	17	12	55	12	6	3	9	76	2	0	0	0	0	2	10-19µg
03/04	33.3%	21.8%	15.4%	70.5%	15.4%	7.7%	3.8%	11.5%	97.4%	2.6%	0.0%	0.0%	0.0%	0.0%	2.6%	
04/05	30	15	13	58	7	6	3	9	74	0	0	0	0	0	0	10-19µg
04/03	40.5%	20.3%	17.6%	78.4%	9.5%	8.1%	4.1%	12.2%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
05/06	18	17	9	44	6	5	2	7	57	1	0	0	0	0	1	10-19µg
33/33	31.0%	29.3%	15.5%	75.9%	10.3%	8.6%	3.4%	12.1%	98.3%	1.7%	0.0%	0.0%	0.0%	0.0%	1.7%	
06/07	36	10	8	54	7	1	2	3	64	0	0	0	0	0	0	<10µg
	56.3%	15.6%	12.5%	84.4%	10.9%	1.6%	3.1%	4.7%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
07/08	48	14	7	69	7	2	0	2	78	1	0	0	0	0	1	<10µg
	60.8%	17.7%	8.9%	87.3%	8.9%	2.5%	0.0%	2.5%	98.7%	1.3%	0.0%	0.0%	0.0%	0.0%	1.3%	
08/09	45	13	5	63	6	1	3	4	73	0	0	0	0	0	0	<10µg
	61.6%	17.8%	6.8%	86.3%	8.2%	1.4%	4.1%	5.5%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
09/10	20	10	3	33	3	1	2	3	39	0	0	0	0	0	0	<10µg
	51.3%	25.6%	7.7%	84.6%	7.7%	2.6%	5.1%	7.7%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Workers under medical surveillance in the badge and jewellery enamelling sector

Table 9 The breakdown of male lead workers under medical surveillance in the badge and jewellery enamelling sector, by highest recorded blood-lead level [μg/100ml] and year (Figures are for the total number of male workers, of which the number under 18 years of age is given in brackets)

Year	<10μg	10-19µg	20-24μg	25-29µg	30-34µg	35-39µg	<40μg	40-49µg	50-59μg	60-69µg	70-79µg	80+μg	70+μg	Median range
92/93							91	2	3	2	0	0	0	<40µg
92/93							92.9%	2.0%	3.1%	2.0%	0.0%	0.0%	0.0%	
93/94							43	12	2	0	0	0	0	<40µg
							75.4%	21.1%	3.5%	0.0%	0.0%	0.0%	0.0%	
94/95							37	2	1	0	0	0	0	<40µg
							92.5%	5.0%	2.5%	0.0%	0.0%	0.0%	0.0%	
95/96							19	0	0	0	0	0	0	<40µg
		•			.		100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.22
96/97	1		2	6	4	1	25	8	1	0	0	0	0	25-29µg
	35.	3%	5.9%	17.6%	11.8%	2.9%	73.5% 10	23.5%	2.9%	0.0%	0.0%	0.0%	0.0%	420
97/98	80.		0.0%	1 10.0%	10.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<20µg
	1	2	7	10.0%	10.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20-24µg
98/99*	8.3%	16.7%	58.3%	0.0%	16.7%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20-24μ9
	6 (1)	3	30.3 %	0.0%	0	0.0 %	10 (1)	0.0 %	1	0.0 %	0.0 %	0.0 %	0.0 %	<10µg
99/00	54.5%	27.3%	9.1%	0.0%	0.0%	0.0%	90.9%	0.0%	9.1%	0.0%	0.0%	0.0%	0.0%	тору
	16 (1)	0	1	0.070	0.070	1	18 (1)	0.070	0.170	0.070	0.070	0.070	0.070	<10µg
00/01	88.9%	0.0%	5.6%	0.0%	0.0%	5.6%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	7 (1)	5	2	1	1	3	19 (1)	0	0	0	0	0	0	10-19µg
01/02	36.8%	26.3%	10.5%	5.3%	5.3%	15.8%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	1	5	2	1	2	1	12	0	1	0	0	0	0	20-24µg
02/03	7.7%	38.5%	15.4%	7.7%	15.4%	7.7%	92.3%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	
03/04	1	3	0	1	0	3	8	2	0	0	0	0	0	25-29µg
03/04	10.0%	30.0%	0.0%	10.0%	0.0%	30.0%	80.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
04/05	2	2	2	1	0	1	8	1	0	0	0	0	0	20-24µg
04/03	22.2%	22.2%	22.2%	11.1%	0.0%	11.1%	88.9%	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%	
05/06	3	6	1	0	0	0	10	0	0	0	0	0	0	10-19µg
33,33	30.0%	60.0%	10.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
06/07	8	9	3	0	0	0	20	1	0	0	0	0	0	10-19µg
	38.1%	42.9%	14.3%	0.0%	0.0%	0.0%	95.2%	4.8%	0.0%	0.0%	0.0%	0.0%	0.0%	
07/08		1		0	0	0	1		2	0	0	0	0	40-59µg
		33.3%		0.0%	0.0%	0.0%	33.3%	66.	6%	0.0%	0.0%	0.0%	0.0%	
08/09		er medical surveil												
09/10	No males unde	er medical surveil	lance											

Table 10 The breakdown of female lead workers under medical surveillance in the badge and jewellery enamelling sector, by highest recorded blood-lead level [µg/100ml] and year

							LF	ig/ roomij	and year							
Year	<10µg	10-19µg	20-24μg		25-29µg	30-34µg	35-39µg			40-49µg	50-59µg	60-69µg	70-79µg	80+µg		Median range
									46	4	0	1	0	0	5	<40µg
92/93									90.2%	7.8%	0.0%	2.0%	0.0%	0.0%	9.8%	
93/94									24	3	0	0	0	0	3	<40µg
93/94									88.9%	11.1%	0.0%	0.0%	0.0%	0.0%	11.1%	
94/95									20	2	1	0	0	0	3	<40µg
3 4 /33									87.0%	8.7%	4.3%	0.0%	0.0%	0.0%	13.0%	
95/96									13	0	0	0	0	0	0	<40µg
									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
96/97	24		3	27	0	0	0	0	27	0	0	0	0	0	0	<20µg
	88.9		11.1%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
97/98	8		2	10	1	1	0	1	12	0	0	0	0	0	0	<20µg
	66.7		16.7%	83.3%	8.3%	8.3%	0.0%	8.3%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
98/99*		3		3	0	0	0	0	3	0	0	0	0	0	0	<25µg
		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	*05
99/00		100.0%		2 100.0%	0	0	0	0		0	0 0.0%	0	0	-	0 0.0%	<25µg
00/01	No females un		ın (aillanaa	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
00/01	No ternales un	4	irveillance	4	0	0	0	0	4	0	0	0	0	0	0	<25µg
01/02		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	~25μg
		4		100.076	0.078	0.0 %	0.0 %	0.0 %	4	0.0 %	0.0%	0.078	0.0 %	0.078	0.0 %	<25µg
02/03		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-20μg
		2		2	0	0	0	0	2	0	0	0	0	0	0	<25µg
03/04		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1,0
		6		6	0	0	0	0	6	0	0	0	0	0	0	<25µg
04/05		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
05/00		4		4	0	0	0	0	4	0	0	0	0	0	0	<25µg
05/06		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
06/07	7	3	0	10	0	0	0	0	10	0	0	0	0	0	0	<10µg
00/07	70.0%	30.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
07/08	No females un	ider medical su	ırveillance													
08/09	No females un	ider medical su	ırveillance													
09/10	No females un	ider medical su	ırveillance													

Workers under medical surveillance in the glass making sector

Table 11 The breakdown of male lead workers under medical surveillance in the glass making sector, by highest recorded blood-lead level [μg/100ml] and year (Figures are for the total number of male workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24µg	25-29µg	30-34µg	35-39µg	<40μg	40-49µg	50-59µg	60-69µg	70-79µg	80+µg	70+μg	Median range
00/00							671	164	80	31	4	2	6	<40µg
92/93							70.5%	17.2%	8.4%	3.3%	0.4%	0.2%	0.6%	
93/94							687	172	65	26	15	6	21	<40µg
93/94							70.8%	17.7%	6.7%	2.7%	1.5%	0.6%	2.2%	
94/95							599	97	48	10	3	0	3	<40µg
34/33							79.1%	12.8%	6.3%	1.3%	0.4%	0.0%	0.4%	
95/96							650	73	37	10	2	0	2	<40µg
30/00							84.2%	9.5%	4.8%	1.3%	0.3%	0.0%	0.3%	
96/97	44	14	140	132	106	75	897	64	14	6	2	0	2	20-24µg
00/01	45.	2%	14.2%	13.4%	10.8%	7.6%	91.3%	6.5%	1.4%	0.6%	0.2%	0.0%	0.2%	
97/98	42	21	123	123	101	52	820	69	20	4	1	0	1	20-24µg
3.755	46.		13.5%	13.5%	11.1%	5.7%	89.7%	7.5%	2.2%	0.4%	0.1%	0.0%	0.1%	
98/99*	153 (10)	274 (7)	141 (2)	140 (2)	96	76	880 (21)	47	17	6	0	0	0	20-24µg
00,00	16.1%	28.8%	14.8%	14.7%	10.1%	8.0%	92.6%	4.9%	1.8%	0.6%	0.0%	0.0%	0.0%	
99/00	138 (11)	215 (3)	123	104 (1)	66	59	705 (15)	46	21	5	2	0	2	20-24µg
00/00	17.7%	27.6%	15.8%	13.4%	8.5%	7.6%	90.5%	5.9%	2.7%	0.6%	0.3%	0.0%	0.3%	
00/01	111 (4)	185 (3)	119 (1)	72	51	44	582 (8)	54	13	2	0	0	0	20-24µg
	17.1%	28.4%	18.3%	11.1%	7.8%	6.8%	89.4%	8.3%	2.0%	0.3%	0.0%	0.0%	0.0%	
01/02	199 (1)	213 (1)	91	70	46 (1)	37	656 (3)	38	7	4	0	0	0	10-19µg
	28.2%	30.2%	12.9%	9.9%	6.5%	5.2%	93.0%	5.4%	1.0%	0.6%	0.0%	0.0%	0.0%	
02/03	289 (3)	162 (1)	55	55	33	37	631 (4)	37	10	0	1	0	1	10-19µg
	42.6%	23.9%	8.1%	8.1%	4.9%	5.4%	92.9%	5.4%	1.5%	0.0%	0.1%	0.0%	0.1%	
03/04	121	178 (1)	52 (1)	57	43	28	479 (2)	29	9	1	1	0	1	10-19µg
	23.3%	34.3%	10.0%	11.0%	8.3%	5.4%	92.3%	5.6%	1.7%	0.2%	0.2%	0.0%	0.2%	
04/05	241 (9)	103	43 (1)	53	26	21	487 (10)	34	8	0	0	0	0	10-19µg
	45.6%	19.5%	8.1%	10.0%	4.9%	4.0%	92.1%	6.4%	1.5%	0.0%	0.0%	0.0%	0.0%	
05/06	30	51	45	35 (1)	25	26	212 (1)	19	6	0	0	0	0	20-24µg
	12.7%	21.5%	19.0%	14.8%	10.5%	11.0%	89.5%	8.0%	2.5%	0.0%	0.0%	0.0%	0.0%	
06/07	80	103	44	25	20	13	285	7	6	0	0	0	0	10-19µg
	26.8%	34.6%	14.8%	8.4%	6.7%	4.4%	95.6%	2.3%	2.0%	0.0%	0.0%	0.0%	0.0%	
07/08	90	77	21	25	23	237	473	79	29	1	0	0	0	35-39µg
	15.5%	13.2%	3.6%	4.3%	4.0%	40.7%	81.3%	13.6%	5.0%	0.2%	0.0%	0.0%	0.0%	
08/09	86	112	68	75	77	62	480	92	30	0	0	0	0	25-29µg
	14.3%	18.6%	11.3%	12.5%	12.8%	10.3%	79.7%	15.3%	5.0%	0.0%	0.0%	0.0%	0.0%	
09/10	38	41	21	22	20	12	154	9	3	0	0	0	0	20-24µg
	22.9%	24.7%	12.7%	13.3%	12.0%	7.2%	92.8%	5.4%	1.8%	0.0%	0.0%	0.0%	0.0%	

Table 12 The breakdown of female lead workers under medical surveillance in the glass making sector, by highest recorded blood-lead level [µg/100ml] and year

(Figures are for the total number of female workers, of which the number under 18 years of age is given in brackets)

		,	<u> </u>			1 of formalo	·							/		
Year	<10µg	10-19µg	20-24µg		25-29µg	30-34µg	35-39µg			40-49µg	50-59µg	60-69µg	70-79µg	80+µg		Median range
92/93									154	3	1	0	0	0	4	<40µg
92/93									97.5%	1.9%	0.6%	0.0%	0.0%	0.0%	2.5%	
93/94									170	0	0	0	0	0	0	<40µg
30/01									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
94/95									158	0	0	0	0	0	0	<40µg
0 1/00									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
95/96									150	0	0	0	0	0	0	<40µg
								ı	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
96/97	106	6	16	122	10	5	0	5	137	0	0	0	0	0	0	<20µg
	77.4		11.7%	89.1%	7.3%	3.6%	0.0%	3.6%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
97/98	86		10	96	3	5	0	5	104	0	0	0	0	0	0	<20µg
	82.7		9.6%	92.3%	2.9%	4.8%	0.0%	4.8%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
98/99*	43 (2)	53	10	106 (2)	3	0	2	2	111 (2)	0	0	0	0	0	0	10-19µg
	38.7%	47.7%	9.0%	95.5%	2.7%	0.0%	1.8%	1.8%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
99/00	59 (5)	56 (1)	8	123 (6)	2	1	0	1	126 (6)	0	0	0	0	0	0	10-19µg
	46.8%	44.4%	6.3%	97.6%	1.6%	0.8%	0.0%	0.8%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
00/01	28	30 (1)	10	68 (1)	6	3	2	5	79 (1)	0	0	0	0	0	0	10-19µg
	35.4%	38.0%	12.7%	86.1%	7.6%	3.8%	2.5%	6.3%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
01/02	27	14	3	44	3	2	0	2	49	1	0	0	0	0	1	<10µg
	54.0%	28.0%	6.0%	88.0%	6.0%	4.0%	0.0%	4.0%	98.0%	2.0%	0.0%	0.0%	0.0%	0.0%	2.0%	
02/03	39 (1)	13	3	55 (1)	3	1	0	1	59 (1)	0	0	0	0	0	0	<10µg
	66.1%	22.0%	5.1%	93.2%	5.1%	1.7%	0.0%	1.7%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
03/04	28 (1)	12	0	40 (1)	3	0	1	1	44 (1)	0	0	0	0	0	0	<10µg
	63.6%	27.3%	0.0%	90.9%	6.8%	0.0%	2.3%	2.3%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
04/05	28	9	2	39	2	0	0	0	41	0	0	0	0	0	0	<10µg
	68.3%	22.0%	4.9%	95.1%	4.9%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
05/06	24	8	4	36	1	1	0	1	38	0	0	0	0	0	0	<10µg
	63.2%	21.1%	10.5%	94.7%	2.6%	2.6%	0.0%	2.6%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
06/07	18	11	1	30	1	1	0	1	32	0	0	0	0	0	0	<10µg
	56.3%	34.4%	3.1%	93.8%	3.1%	3.1%	0.0%	3.1%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
07/08	7	2	2	11	0	0	1	1	12	0	0	0	0	0	0	<10µg
	58.3%	16.7%	16.7%	91.7%	0.0%	0.0%	8.3%	8.3%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
08/09	12 (1)	6	2 (1)	20 (2)	0	0	0	0	20 (2)	0	0	0	0	0	0	<10µg
	60.0%	30.0%	10.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
09/10	31	10	1	42	0	0	0	0	42	0	0	0	0	0	0	<10µg
	73.8%	23.8%	2.4%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Workers under medical surveillance in the manufacture of pigments and colours sector

Table 13 The breakdown of male lead workers under medical surveillance in the manufacture of pigments and colours sector, by highest recorded blood-lead level [μg/100ml] and year (Figures are for the total number of male workers, of which the number under 18 years of age is given in brackets)

	IP S		7 7 7					,		,	and or age		raiono io,	
Year	<10µg	10-19µg	20-24µg	25-29µg	30-34µg	35-39µg		40-49μg	50-59μg	60-69µg	70-79µg	80+µg		Median range
92/93							518	29	9	7	2	0	2	<40µg
92/93							91.7%	5.1%	1.6%	1.2%	0.4%	0.0%	0.4%	
93/94							438	22	7	3	1	0	1	<40µg
93/94							93.0%	4.7%	1.5%	0.6%	0.2%	0.0%	0.2%	
94/95							422	18	5	0	1	0	1	<40µg
3 4 /33							94.6%	4.0%	1.1%	0.0%	0.2%	0.0%	0.2%	
95/96							592	27	10	1	0	0	0	<40µg
30/30							94.0%	4.3%	1.6%	0.2%	0.0%	0.0%	0.0%	
96/97	29		47	23	31	16	411	21	5	0	0	0	0	<20µg
00/01	67.	3%	10.8%	5.3%	7.1%	3.7%	94.1%	4.8%	1.1%	0.0%	0.0%	0.0%	0.0%	
97/98	40	03	32	28	22	15	500	20	2	0	0	0	0	<20µg
0.700	77.	2%	6.1%	5.4%	4.2%	2.9%	95.8%	3.8%	0.4%	0.0%	0.0%	0.0%	0.0%	
98/99*	323 (3)	158	44	38	19	17	599 (3)	13	6	0	0	0	0	<10µg
00,00	52.3%	25.6%	7.1%	6.1%	3.1%	2.8%	96.9%	2.1%	1.0%	0.0%	0.0%	0.0%	0.0%	
99/00	223	113 (1)	34	15	14	13	412 (1)	8	2	1	0	0	0	<10µg
00,00	52.7%	26.7%	8.0%	3.5%	3.3%	3.1%	97.4%	1.9%	0.5%	0.2%	0.0%	0.0%	0.0%	
00/01	280	184	35	17	13	10	539	13	2	0	0	0	0	<10µg
00/01	50.5%	33.2%	6.3%	3.1%	2.3%	1.8%	97.3%	2.3%	0.4%	0.0%	0.0%	0.0%	0.0%	
01/02	279	155	22	33	18	12	519	15	5	2	0	0	0	<10µg
01/02	51.6%	28.7%	4.1%	6.1%	3.3%	2.2%	95.9%	2.8%	0.9%	0.4%	0.0%	0.0%	0.0%	
02/03	285	163	42	36	34	22	582	18	3	0	1	0	1	10-19µg
	47.2%	27.0%	7.0%	6.0%	5.6%	3.6%	96.4%	3.0%	0.5%	0.0%	0.2%	0.0%	0.2%	
03/04	173	130	43	38	24	30	438	9	3	0	1	0	1	10-19µg
	38.4%	28.8%	9.5%	8.4%	5.3%	6.7%	97.1%	2.0%	0.7%	0.0%	0.2%	0.0%	0.2%	
04/05	246	86	25	21	19	11	408	5	2	0	0	0	0	<10µg
	59.3%	20.7%	6.0%	5.1%	4.6%	2.7%	98.3%	1.2%	0.5%	0.0%	0.0%	0.0%	0.0%	
05/06	103	13	6	4	5	3	134	3	0	0	0	0	0	<10µg
	75.2%	9.5%	4.4%	2.9%	3.6%	2.2%	97.8%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	
06/07	33	4	3	4	3	3	50	8	1	0	0	0	0	<10µg
	55.9%	6.8%	5.1%	6.8%	5.1%	5.1%	84.7%	13.6%	1.7%	0.0%	0.0%	0.0%	0.0%	
07/08	15	19	5	9	1	3	52	5	2	0	0	0	0	10-19µg
	25.4%	32.2%	8.5%	15.3%	1.7%	5.1%	88.1%	8.5%	3.4%	0.0%	0.0%	0.0%	0.0%	
08/09	30	34	8	6	11	5	94	7	3	1	0	0	0	10-19µg
	28.6%	32.4%	7.6%	5.7%	10.5%	4.8%	89.5%	6.7%	2.9%	1.0%	0.0%	0.0%	0.0%	
09/10	24	48	8	8	3	3	94	5	1	0	0	0	0	10-19µg
	24.0%	48.0%	8.0%	8.0%	3.0%	3.0%	94.0%	5.0%	1.0%	0.0%	0.0%	0.0%	0.0%	

Table 14 The breakdown of female lead workers under medical surveillance in the manufacture of pigments and colours sector, by highest recorded blood-lead level

[μg/100ml] and year (Figures are for the total number of female workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24µg		25-29µg	30-34µg	35-39µg			40-49µg	50-59µg	60-69µg	70-79µg	80+µg		Median range
92/93									71	0	0	0	0	0	0	<40µg
92/93									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
93/94									57	0	0	0	0	0	0	<40µg
									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
94/95									53	0	0	0	0	0	0	<40µg
									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
95/96									54	0	0	0	0	0	0	<40µg
		30	3	33	2	0	0	0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	420
96/97		7%	8.6%	94.3%	5.7%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<20µg
		16	3	94.5%	0	0.0%	0.0%	0.0%	30	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<20µg
97/98		7%	10.0%	96.7%	0.0%	3.3%	0.0%	3.3%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	120µg
	20	5	0	25	0.070	0	0.070	0.570	25	1	0.070	0.070	0.070	0.070	1	<10µg
98/99*	76.9%	19.2%	0.0%	96.2%	0.0%	0.0%	0.0%	0.0%	96.2%	3.8%	0.0%	0.0%	0.0%	0.0%	3.8%	тору
	31	0	3	34	0	0	0	0	34	0	0	0	0	0	0	<10µg
99/00	91.2%	0.0%	8.8%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	, ,
	19	1	2	22	1	0	0	0	23	0	0	0	0	0	0	<10µg
00/01	82.6%	4.3%	8.7%	95.7%	4.3%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
01/02	11	4	2	17	1	0	0	0	18	0	0	0	0	0	0	<10µg
01/02	61.1%	22.2%	11.1%	94.4%	5.6%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
02/03	14	7	0	21	0	0	0	0	21	0	0	0	0	0	0	<10µg
02/03	66.7%	33.3%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
03/04	12	9	2	23	1	0	0	0	24	0	0	0	0	0	0	<10µg
	50.0%	37.5%	8.3%	95.8%	4.2%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
04/05	18	3	0	21	0	0	0	0	21	0	0	0	0	0	0	<10µg
	85.7%	14.3%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
05/06		11		11	0	0	0	0	11	0	0	0	0	0	0	<25µg
		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
06/07		3		3 (2)	0	0	0	0	3 (2)	0	0	0	0	0	0	<25µg
	100.0%			100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<25µg
07/08	3 100.0%					-	-	0.0%		-	_	-	-	-		<25µg
		3		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<25µg
08/09		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	~20µg
09/10	No females un	der medical surv	reillance	.55.570	3.070	3.070	3.070	0.070	. 30.070	5.5 /0	0.070	0.070	0.070	0.070	0.070	

Workers under medical surveillance in the potteries, glazes and transfers sector

Table 15 The breakdown of male lead workers under medical surveillance in the potteries, glazes and transfers sector, by highest recorded blood-lead level [µg/100ml] and year (Figures are for the total number of male workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24µg	25-29µg	30-34µg	35-39µg		40-49μg	50-59μg	60-69µg	70-79µg	80+µg		Median range
00/00							249	22	11	4	0	0	0	<40µg
92/93							87.1%	7.7%	3.8%	1.4%	0.0%	0.0%	0.0%	
93/94							279	62	18	2	0	1	1	<40µg
93/94							77.1%	17.1%	5.0%	0.6%	0.0%	0.3%	0.3%	
94/95							261	18	10	4	0	0	0	<40µg
3 4 /33							89.1%	6.1%	3.4%	1.4%	0.0%	0.0%	0.0%	
95/96							282	12	9	2	0	0	0	<40µg
30/00							92.5%	3.9%	3.0%	0.7%	0.0%	0.0%	0.0%	
96/97	10)4	25	25	19	8	181	11	4	2	0	0	0	<20µg
33/31	52.	5%	12.6%	12.6%	9.6%	4.0%	91.4%	5.6%	2.0%	1.0%	0.0%	0.0%	0.0%	
97/98	10	08	25	24	13	11	181	8	6	2	0	1	1	<20µg
31733	54.	5%	12.6%	12.1%	6.6%	5.6%	91.4%	4.0%	3.0%	1.0%	0.0%	0.5%	0.5%	
98/99*	25	45	28	9	12	7	126	8	1	0	0	0	0	10-19µg
30/00	18.5%	33.3%	20.7%	6.7%	8.9%	5.2%	93.3%	5.9%	0.7%	0.0%	0.0%	0.0%	0.0%	
99/00	43 (2)	93	23	17	10	5	191 (2)	8	5	0	0	0	0	10-19µg
30/00	21.1%	45.6%	11.3%	8.3%	4.9%	2.5%	93.6%	3.9%	2.5%	0.0%	0.0%	0.0%	0.0%	
00/01	74 (2)	67	16	12	10	4	183 (2)	5	1	1	0	0	0	10-19µg
00/01	38.9%	35.3%	8.4%	6.3%	5.3%	2.1%	96.3%	2.6%	0.5%	0.5%	0.0%	0.0%	0.0%	
01/02	82	72	19	12	8	3	196	12	1	0	0	0	0	10-19µg
01/02	39.2%	34.4%	9.1%	5.7%	3.8%	1.4%	93.8%	5.7%	0.5%	0.0%	0.0%	0.0%	0.0%	
02/03	62	50	8	8	7 (1)	6	141 (1)	10	2	1	1	0	1	10-19µg
02/00	40.0%	32.3%	5.2%	5.2%	4.5%	3.9%	91.0%	6.5%	1.3%	0.6%	0.6%	0.0%	0.6%	
03/04	58	31	12	10	12	6	129	8	1	2	1	0	1	10-19µg
30/04	41.1%	22.0%	8.5%	7.1%	8.5%	4.3%	91.5%	5.7%	0.7%	1.4%	0.7%	0.0%	0.7%	
04/05	40	31	6	7	12	8	104	3	1	0	0	0	0	10-19µg
0 1/00	37.0%	28.7%	5.6%	6.5%	11.1%	7.4%	96.3%	2.8%	0.9%	0.0%	0.0%	0.0%	0.0%	
05/06	29	11	7	6	4	5	62	0	0	0	0	0	0	10-19µg
00/00	46.8%	17.7%	11.3%	9.7%	6.5%	8.1%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
06/07	42	14	11	8	6	0	81	0	0	0	0	0	0	<10µg
00/01	51.9%	17.3%	13.6%	9.9%	7.4%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
07/08	27	7	6	6	3	0	49	1	0	0	0	0	0	<10µg
	54.0%	14.0%	12.0%	12.0%	6.0%	0.0%	98.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
08/09	0	3	3	6	3	1	16	0	0	0	0	0	0	25-29µg
	0.0%	18.8%	18.8%	37.5%	18.8%	6.3%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
09/10	2	9	4	1	1	2	19	0	0	0	0	0	0	10-19µg
	10.5%	47.4%	21.1%	5.3%	5.3%	10.5%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Table 16 The breakdown of female lead workers under medical surveillance in the potteries, glazes and transfers sector, by highest recorded blood-lead level

[µg/100ml] and year (Figures are for the total number of female workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24μg	<25µg	25-29µg	30-34µg	35-39µg	30-39µg	<40µg	40-49μg	50-59μg	60-69µg	70-79μg	80+µg	>40µg	Median range
22/22									174	4	0	1	0	0	5	<40µg
92/93									97.2%	2.2%	0.0%	0.6%	0.0%	0.0%	2.8%	
93/94									165	2	1	0	0	0	3	<40µg
93/94									98.2%	1.2%	0.6%	0.0%	0.0%	0.0%	1.8%	
94/95									155	2	0	0	0	0	2	<40µg
3-1/00									98.7%	1.3%	0.0%	0.0%	0.0%	0.0%	1.3%	
95/96									247	1	0	0	0	0	1	<40µg
	404	0	40	450	0		0	•	99.6%	0.4%	0.0%	0.0%	0.0%	0.0%	0.4%	****
96/97	138		18	156	8	4	2	6	170	0	0	0	0	0	0	<20µg
	81.2 154		10.6% 17	91.8%	4.7%	2.4%	1.2%	3.5%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<20µg
97/98	86.5		9.6%	96.1%	1.1%	1.1%	1.1%	2.2%	99.4%	0.6%	0.0%	0.0%	0.0%	0.0%	0.6%	-20μg
	50 (1)	31	7	88 (1)	2	1.176	2	3	93 (1)	0.078	0.078	0.078	0.0 %	0.0 %	0.070	<10µg
98/99*	53.8%	33.3%	7.5%	94.6%	2.2%	1.1%	2.2%	3.2%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	Торд
	72	84	14	170	3	3	1	4	177	0	0	0	0	0	0	10-19µg
99/00	40.7%	47.5%	7.9%	96.0%	1.7%	1.7%	0.6%	2.3%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
/	91 (2)	56	4	151 (2)	3	4	1	5	159 (2)	0	1	0	0	0	1	<10µg
00/01	56.9%	35.0%	2.5%	94.4%	1.9%	2.5%	0.6%	3.1%	99.4%	0.0%	0.6%	0.0%	0.0%	0.0%	0.6%	
04/00	88	64	6	158	9	4	0	4	171	3	0	0	0	0	3	<10µg
01/02	50.6%	36.8%	3.4%	90.8%	5.2%	2.3%	0.0%	2.3%	98.3%	1.7%	0.0%	0.0%	0.0%	0.0%	1.7%	
02/03	69	33	3	105	1	1	2	3	109	0	0	0	0	0	0	<10µg
02/03	63.3%	30.3%	2.8%	96.3%	0.9%	0.9%	1.8%	2.8%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
03/04	48	18 (1)	5	71 (1)	1 (1)	3	3	6	78 (2)	0	0	0	0	0	0	<10µg
00/01	61.5%	23.1%	6.4%	91.0%	1.3%	3.8%	3.8%	7.7%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
04/05	51	10	7	68	3	2	1	3	74	0	0	0	0	0	0	<10µg
	68.9%	13.5%	9.5%	91.9%	4.1%	2.7%	1.4%	4.1%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
05/06	30	3	1	34	0	1	0	1	35	0	0	0	0	0	0	<10µg
	85.7%	8.6%	2.9%	97.1%	0.0%	2.9%	0.0%	2.9%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
06/07	16	1	3	20	0	0	0	0	20	0	0	0	0	0	0	<10µg
	80.0%	5.0%	15.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	110
07/08	10	1	2	13	0	0	0	0	13	0	0	0	0	0	0	<10µg
	76.9% 13	7.7%	15.4% 2	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<10µg
08/09	68.4%	21.1%	10.5%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	∼ τομα
	6	1	0.5%	7	0.0 %	0.0%	0.0 %	0.0%	7	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	<10µg
09/10	85.7%	14.3%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	Тору
	00.7 /0	14.070	0.070	100.070	0.076	0.076	0.076	0.076	100.078	0.0 /6	0.076	0.076	0.076	0.070	0.076	

Workers under medical surveillance in the manufacture of inorganic and organic compounds sector

Table 17 The breakdown of male lead workers under medical surveillance in the manufacture of inorganic and organic compounds sector, by highest recorded blood-lead level [μg/100ml] and year (Figures are for the total number of male workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24µg	25-29µg	30-34µg	35-39µg		40-49μg	50-59μg	60-69µg	70-79μg	80+µg		Median range
92/93							2332	64	26	15	1	0	1	<40µg
92/93							95.7%	2.6%	1.1%	0.6%	0.0%	0.0%	0.0%	
93/94							1583	49	5	5	0	0	0	<40µg
30/31							96.4%	3.0%	0.3%	0.3%	0.0%	0.0%	0.0%	
94/95							1046	70	20	8	11	1	12	<40µg
3 ., 33							90.5%	6.1%	1.7%	0.7%	1.0%	0.1%	1.0%	
95/96							954	23	3	0	0	0	0	<40µg
00/00							97.3%	2.3%	0.3%	0.0%	0.0%	0.0%	0.0%	
96/97	11	71	174	148	127	79	1699	91	28	5	2	0	2	<20µg
	64.	2%	9.5%	8.1%	7.0%	4.3%	93.1%	5.0%	1.5%	0.3%	0.1%	0.0%	0.1%	
97/98		37	192	174	114	102	1919	110	38	10	3	7	10	<20µg
	64.	1	9.2%	8.3%	5.5%	4.9%	92.0%	5.3%	1.8%	0.5%	0.1%	0.3%	0.5%	
98/99*	382	313	155	122	105	71	1148	78	37	6	2	0	2	10-19µg
	30.1%	24.6%	12.2%	9.6%	8.3%	5.6%	90.3%	6.1%	2.9%	0.5%	0.2%	0.0%	0.2%	
99/00	503	347	152	143	97	82	1324	87	21	2	0	0	0	10-19µg
	35.1%	24.2%	10.6%	10.0%	6.8%	5.7%	92.3%	6.1%	1.5%	0.1%	0.0%	0.0%	0.0%	
00/01	483 (3)	259	115	100	82	59	1098 (3)	74	17	2	3	0	3	10-19µg
	40.5%	21.7%	9.6%	8.4%	6.9%	4.9%	92.0%	6.2%	1.4%	0.2%	0.3%	0.0%	0.3%	
01/02	475	284	105	107	91	61	1123	57	24	8	1	0	1	10-19µg
	39.2%	23.4%	8.7%	8.8%	7.5%	5.0%	92.6%	4.7%	2.0%	0.7%	0.1%	0.0%	0.1%	
02/03	264	195	115	81	80	54	789	65	16	3	2	1	3	10-19µg
	30.1%	22.3%	13.1%	9.2%	9.1%	6.2%	90.1%	7.4%	1.8%	0.3%	0.2%	0.1%	0.3%	
03/04	273	224	87	64	67	52	767	53	23	4	0	0	0	10-19µg
	32.2%	26.4%	10.3%	7.6%	7.9%	6.1%	90.6%	6.3%	2.7%	0.5%	0.0%	0.0%	0.0%	
04/05	260	226	98	78	75	47	784	44	8	2	0	0	0	10-19µg
	31.0%	27.0%	11.7%	9.3%	8.9%	5.6%	93.6%	5.3%	1.0%	0.2%	0.0%	0.0%	0.0%	
05/06	179	129	54	37	32	12	443	12	2	0	0	0	0	10-19µg
	39.2%	28.2%	11.8%	8.1%	7.0%	2.6%	96.9%	2.6%	0.4%	0.0%	0.0%	0.0%	0.0%	
06/07	209	119	65	46	45	22	506	28	7	0	0	0	0	10-19µg
	38.6%	22.0%	12.0%	8.5%	8.3%	4.1%	93.5%	5.2%	1.3%	0.0%	0.0%	0.0%	0.0%	
07/08	117	127	75	78	87	100	584	76	55	10	1	0	1	25-29µg
	16.1%	17.5%	10.3%	10.7%	12.0%	13.8%	80.4%	10.5%	7.6%	1.4%	0.1%	0.0%	0.1%	
08/09	160	107	38	27	32	23	387	17	2	0	0	0	0	10-19µg
	39.4%	26.4%	9.4%	6.7%	7.9%	5.7%	95.3%	4.2%	0.5%	0.0%	0.0%	0.0%	0.0%	
09/10	146	57	28	14	12	4	261	9	0	0	0	0	0	<10µg
	54.1%	21.1%	10.4%	5.2%	4.4%	1.5%	96.7%	3.3%	0.0%	0.0%	0.0%	0.0%	0.0%	

Table 18 The breakdown of female lead workers under medical surveillance in the manufacture of inorganic and organic compounds sector, by highest recorded blood-lead level [µg/100ml] and year

							000 1000	icvei [µg/	roomij an	a your						
Year	<10µg	10-19µg	20-24µg		25-29μg	30-34µg	35-39µg			40-49µg	50-59μg	60-69µg	70-79µg	80+µg		Median range
92/93									182	0	0	0	0	0	0	<40µg
92/93									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
93/94									1	0	0	0	0	0	0	<40µg
									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
94/95									6	0	0	0	0	0	0	<40µg
									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
95/96									13 100.0%	0.0%	0 0.0%	0 0.0%	0.0%	0 0.0%	0 0.0%	<40µg
	10	77	0	107	1	0	0	0	100.0 %	0.0%	0.0 %	0.0 %	0.0 %	0.0 %	0.0%	<20µg
96/97	99.		0.0%	99.1%	0.9%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-20μg
		0	2	42	0	0	0.070	0	42	0	0	0.070	0	0.070	0	<20µg
97/98	95.	2%	4.8%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10
98/99*	33	11	0	44	0	0	0	0	44	0	0	0	0	0	0	<10µg
98/99"	75.0%	25.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
99/00	22	3	0	25	0	0	0	0	25	0	1	0	0	0	1	<10µg
33/33	84.6%	11.5%	0.0%	96.2%	0.0%	0.0%	0.0%	0.0%	96.2%	0.0%	3.8%	0.0%	0.0%	0.0%	3.8%	
00/01	28	3	1	32	1	0	0	0	33	0	0	0	0	0	0	<10µg
	84.8%	9.1%	3.0%	97.0%	3.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
01/02	12	1	0	13	1	1	0	1	15	0	0	0	0	0	0	<10µg
	80.0%	6.7%	0.0%	86.7%	6.7%	6.7%	0.0%	6.7%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
02/03	23 69.7%	4 12.1%	4 12.1%	31 93.9%	1 3.0%	1 3.0%	0 0.0%	1	33 100.0%	0.0%	0 0.0%	0 0.0%	0	0 0.0%	0 0.0%	<10µg
	23	12.1%	12.1%	93.9%	3.0%	3.0%	0.0%	3.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<10µg
03/04	85.2%	14.8%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	< τομg
	24	6	0.070	30	0.070	0.070	0.070	0.070	30	0.070	0.070	0.070	0.070	0.070	0.070	<10µg
04/05	80.0%	20.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1743
05/00	11	4	1	16	1	0	0	0	17	0	0	0	0	0	0	<10µg
05/06	64.7%	23.5%	5.9%	94.1%	5.9%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
06/07	14	2	0	16	0	0	0	0	16	0	0	0	0	0	0	<10µg
00/07	87.5%	12.5%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
07/08	11	2	0	13	0	0	0	0	13	0	0	0	0	0	0	<10µg
31733	84.6%	15.4%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
08/09	14	2	0	16	0	0	0	0	16	0	0	0	0	0	0	<10µg
	87.5%	12.5%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
09/10	No females	under medical	surveillance													

Workers under medical surveillance in the shipbuilding, repairing and breaking sector

Table 19 The breakdown of male lead workers under medical surveillance in the shipbuilding, repairing and breaking sector, by highest recorded blood-lead level [μg/100ml] and year (Figures are for the total number of male workers, of which the number under 18 years of age is given in brackets)

Year	<10μg	10-19µg	20-24μg	25-29µg	30-34µg	35-39µg	<40µg	40-49µg	50-59µg	60-69µg	70-79µg	80+µg	70+μg	Median range
							94	4	0	1	0	0	0	<40µg
92/93							94.9%	4.0%	0.0%	1.0%	0.0%	0.0%	0.0%	-10
							131	9	1	0	0	0	0	<40µg
93/94							92.9%	6.4%	0.7%	0.0%	0.0%	0.0%	0.0%	
04/05							141	7	1	0	0	0	0	<40µg
94/95							94.6%	4.7%	0.7%	0.0%	0.0%	0.0%	0.0%	
95/96							118	3	0	0	0	0	0	<40µg
95/96							97.5%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	
96/97	10	01	10	15	5	8	139	7	1	2	0	0	0	<20µg
30/31	67.	8%	6.7%	10.1%	3.4%	5.4%	93.3%	4.7%	0.7%	1.3%	0.0%	0.0%	0.0%	
97/98	11	14	5	3	2	1	125	1	1	1	0	0	0	<20µg
31130	89.	1%	3.9%	2.3%	1.6%	0.8%	97.7%	0.8%	0.8%	0.8%	0.0%	0.0%	0.0%	
98/99*	56	52	7	3	4	1	123	0	1	4	0	0	0	10-19µg
30/33	43.8%	40.6%	5.5%	2.3%	3.1%	0.8%	96.1%	0.0%	0.8%	3.1%	0.0%	0.0%	0.0%	
99/00	124	65	7	16	2	5	219	9	2	1	0	0	0	<10µg
33/00	53.7%	28.1%	3.0%	6.9%	0.9%	2.2%	94.8%	3.9%	0.9%	0.4%	0.0%	0.0%	0.0%	
00/01	71	10	1	1	0	0	83	1	2	0	0	0	0	<10µg
00/01	82.6%	11.6%	1.2%	1.2%	0.0%	0.0%	96.5%	1.2%	2.3%	0.0%	0.0%	0.0%	0.0%	
01/02	21	3	0	0	0	1	25	1	1	0	0	0	0	<10µg
01/02	77.8%	11.1%	0.0%	0.0%	0.0%	3.7%	92.6%	3.7%	3.7%	0.0%	0.0%	0.0%	0.0%	
02/03	58	5	7	2	2	2	76	0	1	1	0	0	0	<10µg
02/00	74.4%	6.4%	9.0%	2.6%	2.6%	2.6%	97.4%	0.0%	1.3%	1.3%	0.0%	0.0%	0.0%	
03/04	128 (3)	10	2	1	0	0	141 (3)	3	1	0	1	0	1	<10µg
00/01	87.7%	6.8%	1.4%	0.7%	0.0%	0.0%	96.6%	2.1%	0.7%	0.0%	0.7%	0.0%	0.7%	
04/05	14	3	0	0	2	0	19	2	2	0	0	0	0	<10µg
	60.9%	13.0%	0.0%	0.0%	8.7%	0.0%	82.6%	8.7%	8.7%	0.0%	0.0%	0.0%	0.0%	
05/06	16	8	9	6	1	0	40	4	0	0	0	0	0	10-19µg
00/00	36.4%	18.2%	20.5%	13.6%	2.3%	0.0%	90.9%	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%	
06/07	28	1	1	0	0	0	30	1	2	1	0	0	0	<10µg
	82.4%	2.9%	2.9%	0.0%	0.0%	0.0%	88.2%	2.9%	5.9%	2.9%	0.0%	0.0%	0.0%	
07/08	21	1	1	1	0	0	24	3	1	0	0	0	0	<10µg
	75.0%	3.6%	3.6%	3.6%	0.0%	0.0%	85.7%	10.7%	3.6%	0.0%	0.0%	0.0%	0.0%	
08/09	54	6	2	0	1	0	63	3	2	0	0	0	0	<10µg
	79.4%	8.8%	2.9%	0.0%	1.5%	0.0%	92.6%	4.4%	2.9%	0.0%	0.0%	0.0%	0.0%	
09/10	93	1	2	0	1	1	98	0	0	0	0	0	0	<10µg
	94.9%	1.0%	2.0%	0.0%	1.0%	1.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Table 20 The breakdown of female lead workers under medical surveillance in the shipbuilding, repairing and breaking sector, by highest recorded blood-lead level [µg/100ml] and year

								ig/ roomij	and year							
Year	<10µg	10-19µg	20-24µg		25-29μg	30-34µg	35-39µg			40-49µg	50-59μg	60-69µg	70-79µg	80+µg		Median range
92/93	No females	under medical	surveillance													
93/94	No females	under medical	surveillance													
94/95									1 100.0%	0.0%	0.0%	0 0.0%	0.0%	0.0%	0.0%	<40µg
95/96	No females	under medical	surveillance						100.070			21270	3.0,0	*****		
96/97	No females	under medical	surveillance													
97/98	No females	under medical	surveillance													
98/99*	No females	under medical	surveillance													
99/00	No females under medical surveillance No females under medical surveillance															
00/01	No females	under medical	surveillance													
01/02	No females	under medical	surveillance													
02/03	No females	under medical	surveillance													
03/04	No females	under medical	surveillance													
04/05	No females	under medical	surveillance													
05/06	No females	under medical	surveillance													
06/07	No females	under medical	surveillance													
07/08	No females	under medical	surveillance													
08/09	16	3	2	21	0	0	0	0	21	0	0	0	0	0	0	<10µg
00/40	76.2%	14.3%	9.5%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
09/10	No temales	under medical	surveillance													

Workers under medical surveillance in the demolition sector

Table 21 The breakdown of male lead workers under medical surveillance in the demolition sector, by highest recorded blood-lead level [µg/100ml] and year

Year	<10µg	10-19µg	20-24µg	25-29µg	30-34µg	35-39µg	<40μg	40-49μg	50-59µg	60-69µg	70-79µg	80+µg	70+μg	Median range
92/93							493	73	45	21	13	5	18	<40µg
92/93							75.8%	11.2%	6.9%	3.2%	2.0%	0.8%	2.8%	
93/94							366	65	27	18	6	2	8	<40µg
33/34							75.6%	13.4%	5.6%	3.7%	1.2%	0.4%	1.7%	
94/95							496	84	49	31	14	8	22	<40µg
0 1/00							72.7%	12.3%	7.2%	4.5%	2.1%	1.2%	3.2%	
95/96							322	52	28	17	14	21	35	<40µg
30,00							70.9%	11.5%	6.2%	3.7%	3.1%	4.6%	7.7%	
96/97	13	34	40	50	41	46	311	45	39	28	9	4	13	25-29µg
	30.		9.2%	11.5%	9.4%	10.6%	71.3%	10.3%	8.9%	6.4%	2.1%	0.9%	3.0%	
97/98	18	39	48	50	52	29	368	60	37	19	6	7	13	25-29µg
	38.		9.7%	10.1%	10.5%	5.8%	74.0%	12.1%	7.4%	3.8%	1.2%	1.4%	2.6%	
98/99*	170	72	33	34	33	18	360	35	12	3	1	1	2	10-19µg
	41.3%	17.5%	8.0%	8.3%	8.0%	4.4%	87.4%	8.5%	2.9%	0.7%	0.2%	0.2%	0.5%	
99/00	163	153	47	42	32	19	456	32	20	12	1	2	3	10-19µg
	31.2%	29.3%	9.0%	8.0%	6.1%	3.6%	87.2%	6.1%	3.8%	2.3%	0.2%	0.4%	0.6%	
00/01	168	132	103	43	46	36	528	32	15	14	10	7	17	20-24µg
	27.7%	21.8%	17.0%	7.1%	7.6%	5.9%	87.1%	5.3%	2.5%	2.3%	1.7%	1.2%	2.8%	
01/02	176	117	36	23	19	17	388	14	10	3	1	0	1	10-19µg
· · · · ·	42.3%	28.1%	8.7%	5.5%	4.6%	4.1%	93.3%	3.4%	2.4%	0.7%	0.2%	0.0%	0.2%	
02/03	147	89	28	21	19	15	319	22	13	0	1	0	1	10-19µg
	41.4%	25.1%	7.9%	5.9%	5.4%	4.2%	89.9%	6.2%	3.7%	0.0%	0.3%	0.0%	0.3%	
03/04	155	106	38	26	13	14	352	26	7	3	1	0	1	10-19µg
	39.8%	27.2%	9.8%	6.7%	3.3%	3.6%	90.5%	6.7%	1.8%	0.8%	0.3%	0.0%	0.3%	
04/05	193	97	24	23	15	23	375	8	11	11	5	1	6	10-19µg
	47.0%	23.6%	5.8%	5.6%	3.6%	5.6%	91.2%	1.9%	2.7%	2.7%	1.2%	0.2%	1.5%	
05/06	182	98	31	17	12	10	350	6	4	2	0	3	3	10-19µg
	49.9%	26.8%	8.5%	4.7%	3.3%	2.7%	95.9%	1.6%	1.1%	0.5%	0.0%	0.8%	0.8%	
06/07	183	65	23	14	12	5	302	13	2	0	0	5	5	<10µg
	56.8%	20.2%	7.1%	4.3%	3.7%	1.6%	93.8%	4.0%	0.6%	0.0%	0.0%	1.6%	1.6%	
07/08	136	44	17	6	12	5	220	10	7	3	0	0	0	<10µg
	56.7%	18.3%	7.1%	2.5%	5.0%	2.1%	91.7%	4.2%	2.9%	1.3%	0.0%	0.0%	0.0%	
08/09	70	18	12	5	5	1	111	1	1	1	0	0	0	<10µg
	61.4%	15.8%	10.5%	4.4%	4.4%	0.9%	97.4%	0.9%	0.9%	0.9%	0.0%	0.0%	0.0%	
09/10	128	109	46	14	13	9	319	7	1	0	1	0	1	10-19µg
	39.0%	33.2%	14.0%	4.3%	4.0%	2.7%	97.3%	2.1%	0.3%	0.0%	0.3%	0.0%	0.3%	

Table 22 The breakdown of female lead workers under medical surveillance in the demolition sector, by highest recorded blood-lead level [µg/100ml] and year

Year	<10µg	10-19µg	20-24µg		25-29µg	30-34µg	35-39µg			40-49µg	50-59μg	60-69µg	70-79µg	80+µg		Median range
92/93									1	0	0	0	0	0	0	<40µg
92/93									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
93/94	No females	under medica	l surveillance													
94/95	No females	under medica	l surveillance													
95/96									1	0	0	0	0	0	0	<40µg
									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
96/97		under medica	l surveillance													
97/98		3	2	5	0	0	0	0	5	0	0	0	0	0	0	<20µg
	60	0.0%	40.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
98/99*		4		4	0	0	0	0	4	0	0	0	0	0	0	<25µg
	100.0%			100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
99/00				4	0	0	0	0	4	0	0	0	0	0	0	<25µg
		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
00/01		under medica														
01/02		under medica														
02/03		under medica														
03/04		under medica														
04/05	No females	under medica	l surveillance	1	1	1	1					· ·	-	1	1	
05/06		1		1	0	0	0	0	1	0	0	0	0	0	0	<25µg
		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
06/07		1		1	0	0	0	0	1	0	0	0	0	0	0	<25µg
07/00		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
07/08		under medica														
08/09		under medica														
09/10	No females	under medica	I surveillance													

Workers under medical surveillance in the painting of building and vehicles sector

Table 23 The breakdown of male lead workers under medical surveillance in the painting of building and vehicles sector, by highest recorded blood-lead level and [μg/100ml] year (Figures are for the total number of male workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24µg	25-29µg	30-34µg	35-39µg		40-49µg	50-59µg	60-69µg	70-79µg	80+µg		Median range
92/93							815	36	12	17	8	5	13	<40µg
92/93							91.3%	4.0%	1.3%	1.9%	0.9%	0.6%	1.5%	
93/94							483	14	1	1	0	0	0	<40µg
33/34							96.8%	2.8%	0.2%	0.2%	0.0%	0.0%	0.0%	
94/95							421	11	8	4	4	2	6	<40µg
0.700							93.6%	2.4%	1.8%	0.9%	0.9%	0.4%	1.3%	
95/96							296	14	12	2	0	0	0	<40µg
							91.4%	4.3%	3.7%	0.6%	0.0%	0.0%	0.0%	
96/97	29	99	27	28	16	8	378	23	10	6	0	0	0	<20µg
	71.		6.5%	6.7%	3.8%	1.9%	90.6%	5.5%	2.4%	1.4%	0.0%	0.0%	0.0%	
97/98		35	37	38	33	26	519	33	17	5	4	6	10	<20µg
	65.	1	6.3%	6.5%	5.7%	4.5%	88.9%	5.7%	2.9%	0.9%	0.7%	1.0%	1.7%	
98/99*	283	150	44	41	27	28	573	29	23	10	4	3	7	10-19µg
	44.1%	23.4%	6.9%	6.4%	4.2%	4.4%	89.3%	4.5%	3.6%	1.6%	0.6%	0.5%	1.1%	
99/00	289	167	98	68	57	41	720	58	41	12	3	3	6	10-19µg
	34.5%	20.0%	11.7%	8.1%	6.8%	4.9%	86.0%	6.9%	4.9%	1.4%	0.4%	0.4%	0.7%	
00/01	299	129	45	47	32	32	584	50	27	7	2	1	3	10-19µg
	44.6%	19.2%	6.7%	7.0%	4.8%	4.8%	87.0%	7.5%	4.0%	1.0%	0.3%	0.1%	0.4%	
01/02	361	150	63	35	35	45	689	50	40	17	6	9	15	10-19µg
	44.5%	18.5%	7.8%	4.3%	4.3%	5.5%	85.0%	6.2%	4.9%	2.1%	0.7%	1.1%	1.8%	
02/03	242	116	55 (1)	35	24	22	494 (1)	32	16	8	3	2	5	10-19µg
	43.6%	20.9%	9.9%	6.3%	4.3%	4.0%	89.0%	5.8%	2.9%	1.4%	0.5%	0.4%	0.9%	
03/04	260	118	31	35	20	29	493	27	8	7	2	4	6	10-19µg
	48.1%	21.8%	5.7%	6.5%	3.7%	5.4%	91.1%	5.0%	1.5%	1.3%	0.4%	0.7%	1.1%	
04/05	212	85	20	14	12	14	357	22	10	3	2	1	3	<10µg
	53.7%	21.5%	5.1%	3.5%	3.0%	3.5%	90.4%	5.6%	2.5%	0.8%	0.5%	0.3%	0.8%	
05/06	267	140	33	32	21	19	512	25	7	2	2	1	3	10-19µg
	48.6%	25.5%	6.0%	5.8%	3.8%	3.5%	93.3%	4.6%	1.3%	0.4%	0.4%	0.2%	0.5%	
06/07	311	130	36	44	33	28	582	28	10	3	2	4	6	10-19µg
	49.4%	20.7%	5.7%	7.0%	5.2%	4.5%	92.5%	4.5%	1.6%	0.5%	0.3%	0.6%	1.0%	
07/08	274 (2)	136 (1)	56	51	29	26	572 (3)	31	17	6	0	2	2	10-19µg
	43.6%	21.7%	8.9%	8.1%	4.6%	4.1%	91.1%	4.9%	2.7%	1.0%	0.0%	0.3%	0.3%	
08/09	154 (1)	73	27	32	31	23	340 (1)	42	37	7	0	0	0	10-19µg
	36.2%	17.1%	6.3%	7.5%	7.3%	5.4%	79.8%	9.9%	8.7%	1.6%	0.0%	0.0%	0.0%	
09/10	188	61	19 (1)	22	22	9	321 (1)	16	5	3	0	0	0	<10µg
	54.5%	17.7%	5.5%	6.4%	6.4%	2.6%	93.0%	4.6%	1.4%	0.9%	0.0%	0.0%	0.0%	

Table 24 The breakdown of female lead workers under medical surveillance in the painting of building and vehicles sector, by highest recorded blood-lead level [μg/100ml] and year

Year	<10µg	10-19µg	20-24µg		25-29µg	30-34µg	35-39µg			40-49µg	50-59µg	60-69µg	70-79µg	80+µg		Median range
00/00									2	0	0	0	0	0	0	<40µg
92/93									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
93/94									1	0	0	0	0	0	0	<40µg
93/94									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
94/95	No females ur	nder medical surv	reillance													
95/96									2	0	0	0	0	0	0	<40µg
33/30									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
96/97		1		1	0	0	0	0	1	0	0	0	0	0	0	<25µg
		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
97/98	No females ur	nder medical surv	reillance													
98/99*	No females ur	nder medical surv	reillance													
99/00	No females ur	nder medical surv	eillance	1	1			ı	T-				-			
00/01	3	0	2	5	0	0	0	0	5	0	0	0	0	0	0	<10µg
	60.0%	0.0%	40.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
01/02		3		3	0	0	0	0	3	0	0	0	0	0	0	<25µg
		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
02/03		7		7	0	0	0	0	7	0	0	0	0	0	0	<25µg
		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
03/04		1		1	0	0	0	0	1	0	0	0	0	0	0	<25µg
		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
04/05		1		1	0	0	0	0	1	0	0	0	0	0	0	<25µg
05/00	No females	100.0%	. 20	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
05/06	No females under medical surveillance No females under medical surveillance															
06/07	No terriales ur	6	elliarice	6	0	0	0	0	6	0	0	0	0	0	0	405
07/08		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<25µg
		2		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<25µg
08/09		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	~25μg
	4	100.0 /0	0	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<10µg
09/10	80.0%	20.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	- τομα
	00.0%	20.0%	0.0%	100.0%	0.0 %	0.0%	0.0%	0.0%	100.0 //	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Workers under medical surveillance in the work with metallic lead and lead containing alloys sector

Table 25 The breakdown of male lead workers under medical surveillance in the work with metallic lead and lead containing alloys sector, by highest recorded blood-lead level [µg/100ml] and year (Figures are for the total number of male workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24μg	25-29µg	30-34µg	35-39µg		40-49µg	50-59μg	60-69µg	70-79µg	80+µg		Median range
92/93							1485	160	81	35	4	2	6	<40µg
32/33							84.0%	9.1%	4.6%	2.0%	0.2%	0.1%	0.3%	
93/94							1455	144	50	25	12	4	16	<40µg
30/31							86.1%	8.5%	3.0%	1.5%	0.7%	0.2%	0.9%	
94/95							1542	147	45	26	8	7	15	<40µg
0 1/00							86.9%	8.3%	2.5%	1.5%	0.5%	0.4%	0.8%	
95/96							1332	121	64	22	7	2	9	<40µg
30/30							86.0%	7.8%	4.1%	1.4%	0.5%	0.1%	0.6%	
96/97	87	76	187	179	162	95	1499	132	44	17	3	1	4	<20µg
00/01	51.	7%	11.0%	10.6%	9.6%	5.6%	88.4%	7.8%	2.6%	1.0%	0.2%	0.1%	0.2%	
97/98	10	36	206	154	127	115	1638	94	37	8	3	0	3	<20µg
01700	58.		11.6%	8.7%	7.1%	6.5%	92.0%	5.3%	2.1%	0.4%	0.2%	0.0%	0.2%	
98/99*	482 (1)	578 (1)	177 (1)	144 (2)	112	102	1595 (5)	84	35	9	2	1	3	10-19µg
33,33	27.9%	33.5%	10.3%	8.3%	6.5%	5.9%	92.4%	4.9%	2.0%	0.5%	0.1%	0.1%	0.2%	
99/00	608 (2)	517 (4)	172 (1)	153	132	80	1662 (7)	115	57	12	1	1	2	10-19µg
33/00	32.9%	28.0%	9.3%	8.3%	7.1%	4.3%	89.9%	6.2%	3.1%	0.6%	0.1%	0.1%	0.1%	
00/01	548 (1)	486 (2)	151	122	101	70	1478 (3)	80	34	6	1	0	1	10-19µg
00/01	34.3%	30.4%	9.4%	7.6%	6.3%	4.4%	92.4%	5.0%	2.1%	0.4%	0.1%	0.0%	0.1%	
01/02	533 (2)	443 (3)	167 (1)	150	95	75	1463 (6)	73	36	12	1	0	1	10-19µg
01/02	33.6%	27.9%	10.5%	9.5%	6.0%	4.7%	92.3%	4.6%	2.3%	0.8%	0.1%	0.0%	0.1%	
02/03	431 (2)	360 (4)	138 (1)	92 (1)	76 (2)	68 (1)	1165 (11)	64 (1)	27	11	0	0	0	10-19µg
02/03	34.0%	28.4%	10.9%	7.3%	6.0%	5.4%	91.9%	5.1%	2.1%	0.9%	0.0%	0.0%	0.0%	
03/04	342 (2)	248 (2)	124	99	86 (3)	59	958 (7)	77	18	7	3	0	3	10-19µg
03/04	32.2%	23.3%	11.7%	9.3%	8.1%	5.6%	90.1%	7.2%	1.7%	0.7%	0.3%	0.0%	0.3%	
04/05	353	227 (2)	121 (1)	74	73 (1)	73 (1)	921 (5)	69	27	7	2	0	2	10-19µg
04/03	34.4%	22.1%	11.8%	7.2%	7.1%	7.1%	89.8%	6.7%	2.6%	0.7%	0.2%	0.0%	0.2%	
05/06	212 (1)	207 (4)	88	67 (2)	61	43 (1)	678 (8)	48	20	5	2	0	2	10-19µg
03/00	28.2%	27.5%	11.7%	8.9%	8.1%	5.7%	90.0%	6.4%	2.7%	0.7%	0.3%	0.0%	0.3%	
06/07	250	208	84	84	57	39	722	57	21	4	4	0	4	10-19µg
06/07	30.9%	25.7%	10.4%	10.4%	7.1%	4.8%	89.4%	7.1%	2.6%	0.5%	0.5%	0.0%	0.5%	
07/08	203	148	69	58	37	19	534	24	16	2	0	0	0	10-19µg
-01/00	35.2%	25.7%	12.0%	10.1%	6.4%	3.3%	92.7%	4.2%	2.8%	0.3%	0.0%	0.0%	0.0%	
08/09	327	163 (1)	85 (1)	51	53	17	696 (2)	27	10	4	0	1	1	10-19µg
00/09	44.3%	22.1%	11.5%	6.9%	7.2%	2.3%	94.3%	3.7%	1.4%	0.5%	0.0%	0.1%	0.1%	
09/10	134 (1)	114 (1)	61	46	31	26	412 (2)	24	7	1	0	0	0	10-19µg
03/10	30.2%	25.7%	13.7%	10.4%	7.0%	5.9%	92.8%	5.4%	1.6%	0.2%	0.0%	0.0%	0.0%	

Table 26 The breakdown of female lead workers under medical surveillance in the work with metallic lead and lead containing alloys sector, by highest recorded blood-lead level [μg/100ml] and year (Figures are for the total number of female workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24µg		25-29µg	30-34µg	35-39µg			40-49µg	50-59µg	60-69µg	70-79µg	80+µg		Median range
92/93									120	1	0	0	0	0	1	<40µg
92/93									99.2%	0.8%	0.0%	0.0%	0.0%	0.0%	0.8%	
93/94									122	0	0	0	0	0	0	<40µg
									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
94/95									147	1	0	0	0	0	1	<40µg
									99.3%	0.7%	0.0%	0.0%	0.0%	0.0%	0.7%	
95/96									121	0	0	0	0	0	0	<40µg
		111	40	407	40	2	2		100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	420
96/97		6.6%	16 11.0%	127 87.6%	10 6.9%	3 2.1%	3 2.1%	6 4.1%	98.6%	1 0.7%	0.0%	1 0.7%	0.0%	0.0%	2 1.4%	<20µg
		104	20	124	6.9%	4	3	7	137	0.7%	0.0%	0.7%	0.0%	0.0%	1.4%	<20µg
97/98		5.4%	14.5%	89.9%	4.3%	2.9%	2.2%	5.1%	99.3%	0.7%	0.0%	0.0%	0.0%	0.0%	0.7%	-20μ9
	58	27	14.570	95	7.570	0	1	1	103	2	0.070	0.0 %	0.070	0.070	2	<10µg
98/99*	55.2%	25.7%	9.5%	90.5%	6.7%	0.0%	1.0%	1.0%	98.1%	1.9%	0.0%	0.0%	0.0%	0.0%	1.9%	.549
	81	35	4	120	3	1	1	2	125	1	0	0	0	0	1	<10µg
99/00	64.3%	27.8%	3.2%	95.2%	2.4%	0.8%	0.8%	1.6%	99.2%	0.8%	0.0%	0.0%	0.0%	0.0%	0.8%	10
20/04	79	32	1	112	4	2	2	4	120	1	1	0	0	0	2	<10µg
00/01	64.8%	26.2%	0.8%	91.8%	3.3%	1.6%	1.6%	3.3%	98.4%	0.8%	0.8%	0.0%	0.0%	0.0%	1.6%	
01/02	73 (3)	27	2	102 (3)	4	1	0	1	107 (3)	0	1	0	0	0	1	<10µg
01/02	67.6%	25.0%	1.9%	94.4%	3.7%	0.9%	0.0%	0.9%	99.1%	0.0%	0.9%	0.0%	0.0%	0.0%	0.9%	
02/03	46	20	4	70	3	1	0	1	74	1	1	0	0	0	2	<10µg
02/03	60.5%	26.3%	5.3%	92.1%	3.9%	1.3%	0.0%	1.3%	97.4%	1.3%	1.3%	0.0%	0.0%	0.0%	2.6%	
03/04	69 (2)	12	4	85 (2)	1	0	0	0	86 (2)	0	0	0	0	0	0	<10µg
30/01	80.2%	14.0%	4.7%	98.8%	1.2%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
04/05	33	8	3	44	0	0	1	1	45	0	0	0	0	0	0	<10µg
	73.3%	17.8%	6.7%	97.8%	0.0%	0.0%	2.2%	2.2%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
05/06	42 (5)	19 (5)	2	63 (10)	2	0	0	0	65 (10)	0	0	0	0	0	0	<10µg
	64.6%	29.2%	3.1%	96.9%	3.1%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
06/07	50	20	1	71	1	0	0	0	72	0	0	0	0	0	0	<10µg
	69.4%	27.8%	1.4%	98.6%	1.4%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	440
07/08	58 80.6%	13	1 1.4%	72 100.0%	0.0%	0.0%	0 0.0%	0.0%	72 100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<10µg
	33 (1)	18.1%	1.4%	47 (1)	0.0%	0.0%	0.0%	0.0%	47 (1)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<10µg
08/09	70.2%	27.7%	2.1%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	- τομα
	17	5	0	22	0.0 %	0.0 %	0.0 %	0.0 %	22	0.0 %	0.0 %	0.0 %	0.0 %	0.078	0.078	<10µg
09/10	77.3%	22.7%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-10μg
	11.070	۷۷.۱/0	0.070	100.070	0.070	0.070	0.070	0.070	100.070	0.076	0.076	0.076	0.076	0.070	0.070	

Workers under medical surveillance in other processes

Table 27 The breakdown of male lead workers under medical surveillance in other processes, by highest recorded blood-lead level [μg/100ml] and year (Figures are for the total number of male workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24µg	25-29µg	30-34µg	35-39µg		40-49µg	50-59µg	60-69µg	70-79µg	80+µg		Median range
92/93							2694	155	56	30	9	7	16	<40µg
92/93							91.3%	5.3%	1.9%	1.0%	0.3%	0.2%	0.5%	
93/94							2498	91	69	30	9	6	15	<40µg
33/34							92.4%	3.4%	2.6%	1.1%	0.3%	0.2%	0.6%	
94/95							2598	149	68	47	15	3	18	<40µg
3 ., 33							90.2%	5.2%	2.4%	1.6%	0.5%	0.1%	0.6%	
95/96							2980	150	56	23	7	1	8	<40µg
00,00							92.6%	4.7%	1.7%	0.7%	0.2%	0.0%	0.2%	
96/97	15	99	221	179	120	87	2206	106	45	16	0	0	0	<20µg
	67.	4%	9.3%	7.5%	5.1%	3.7%	93.0%	4.5%	1.9%	0.7%	0.0%	0.0%	0.0%	
97/98		18	192	150	125	88	2373	118	56	21	4	7	11	<20µg
	70.5%		7.4%	5.8%	4.8%	3.4%	92.0%	4.6%	2.2%	0.8%	0.2%	0.3%	0.4%	
98/99*	1051 (4)	738	216	173	136	95	2409 (4)	106	62	27	7	6	13	10-19µg
	40.2%	28.2%	8.3%	6.6%	5.2%	3.6%	92.1%	4.1%	2.4%	1.0%	0.3%	0.2%	0.5%	
99/00	1075 (4)	705 (3)	227	217	150	120	2494 (7)	121	51	24	9	2	11	10-19µg
	39.8%	26.1%	8.4%	8.0%	5.6%	4.4%	92.3%	4.5%	1.9%	0.9%	0.3%	0.1%	0.4%	
00/01	1001 (6)	566 (3)	216	156	107	96	2142 (9)	133	46	19	2	2	4	10-19µg
	42.7%	24.1%	9.2%	6.7%	4.6%	4.1%	91.4%	5.7%	2.0%	0.8%	0.1%	0.1%	0.2%	
01/02	1119 (2)	566 (2)	194	169	121	99	2268 (4)	127	51	8	5	1	6	10-19µg
	45.5%	23.0%	7.9%	6.9%	4.9%	4.0%	92.2%	5.2%	2.1%	0.3%	0.2%	0.0%	0.2%	
02/03	1103 (3)	580	225	140	105	101	2254 (3)	88	46	5	2	3	5	10-19µg
	46.0%	24.2%	9.4%	5.8%	4.4%	4.2%	94.0%	3.7%	1.9%	0.2%	0.1%	0.1%	0.2%	
03/04	1027 (9)	557 (2)	179 (1)	169	121	77	2130 (12)	111	43	16	4	1	5	10-19µg
	44.6%	24.2%	7.8%	7.3%	5.2%	3.3%	92.4%	4.8%	1.9%	0.7%	0.2%	0.0%	0.2%	
04/05	766 (3)	468 (3)	168	107	103	65	1677 (6)	67	27	6	2	1	3	10-19µg
	43.0%	26.3%	9.4%	6.0%	5.8%	3.7%	94.2%	3.8%	1.5%	0.3%	0.1%	0.1%	0.2%	
05/06	856 (2)	569 (1)	171	120	97	74	1887 (3)	71	23	6	0	2	2	10-19µg
	43.0%	28.6%	8.6%	6.0%	4.9%	3.7%	94.9%	3.6%	1.2%	0.3%	0.0%	0.1%	0.1%	10.10
06/07	815	465	184	134	86	54	1738	72	15	8	5	1	6	10-19µg
	44.3%	25.3%	10.0%	7.3%	4.7%	2.9%	94.5%	3.9%	0.8%	0.4%	0.3%	0.1%	0.3%	10.10
07/08	797	420 (1)	166	122	88 (1)	82	1675 (2)	68	22	4	3	0	3	10-19µg
	45.0%	23.7%	9.4%	6.9%	5.0%	4.6%	94.5%	3.8%	1.2%	0.2%	0.2%	0.0%	0.2%	440
08/09	772	299	95 (2)	91 (1)	59 (1)	3 4 9 /	1360 (4)	30	11	0.29/	0 0%	0	0 0%	<10µg
	54.9%	21.3%	6.8%	6.5%	4.2%	3.1%	96.8%	2.1%	0.8%	0.3%	0.0%	0.0%	0.0%	40.40
09/10	985 (1)	432 (1)	162	127	107	77	1890 (2)	94	27		1	0	0.0%	10-19µg
	48.9%	21.4%	8.0%	6.3%	5.3%	3.8%	93.8%	4.7%	1.3%	0.1%	0.0%	0.0%	0.0%	

Table 28 The breakdown of female lead workers under medical surveillance in other processes, by highest recorded blood-lead level [μg/100ml] and year (Figures

are for the total number of female workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24µg		25-29µg	30-34µg	35-39µg			40-49μg	50-59µg	60-69µg	70-79µg	80+µg		Median range
92/93									103	0	0	0	0	0	0	<40µg
92/93									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
93/94									97	1	0	0	0	0	1	<40µg
									99.0%	1.0%	0.0%	0.0%	0.0%	0.0%	1.0%	
94/95									63	0	0	0	0	0	0	<40µg
									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
95/96									90 100.0%	0 0.0%	0 0.0%	0 0.0%	0.0%	0 0.0%	0 0.0%	<40µg
		<u> </u>	1	45	0	0	1	1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<20µg
96/97		.7%	2.1%	93.8%	0.0%	0.0%	2.1%	2.1%	95.8%	2.1%	0.0%	2.1%	0.0%	0.0%	4.2%	<20μg
		., 70 71	3	74	0.0 %	0.076	0	0	75	0	0.0 %	0	0.0 %	0.0 %	4.2 /0	<20µg
97/98		.7%	4.0%	98.7%	1.3%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2049
	70	40 (2)	3	113 (2)	3 (1)	1	0	1	117 (3)	2	0	3	0	0	5	<10µg
98/99*	57.4%	32.8%	2.5%	92.6%	2.5%	0.8%	0.0%	0.8%	95.9%	1.6%	0.0%	2.5%	0.0%	0.0%	4.1%	
00/00	51	31	7	89	5	0	1 (1)	1 (1)	95 (1)	0	2	0	0	0	2	<10µg
99/00	52.6%	32.0%	7.2%	91.8%	5.2%	0.0%	1.0%	1.0%	97.9%	0.0%	2.1%	0.0%	0.0%	0.0%	2.1%	
00/01	39	26	5	70	3	1	2	3	76	1	0	0	0	0	1	<10µg
00/01	50.6%	33.8%	6.5%	90.9%	3.9%	1.3%	2.6%	3.9%	98.7%	1.3%	0.0%	0.0%	0.0%	0.0%	1.3%	
01/02	34	26	3	63	4	0	0	0	67	0	1	0	0	0	1	<10µg
01/02	50.0%	38.2%	4.4%	92.6%	5.9%	0.0%	0.0%	0.0%	98.5%	0.0%	1.5%	0.0%	0.0%	0.0%	1.5%	
02/03	48	26	0	74	0	0	1	1	75	0	0	0	0	0	0	<10µg
	64.0%	34.7%	0.0%	98.7%	0.0%	0.0%	1.3%	1.3%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
03/04	50 (1)	23	3	76 (1)	1	0	1	1	78 (1)	0	1	0	0	0	1	<10µg
	63.3%	29.1%	3.8%	96.2%	1.3%	0.0%	1.3%	1.3%	98.7%	0.0%	1.3%	0.0%	0.0%	0.0%	1.3%	
04/05	54	21	4	79	0	0	0	0	79	0	0	1	0	0	1	<10µg
	67.5%	26.3%	5.0%	98.8%	0.0%	0.0%	0.0%	0.0%	98.8%	0.0%	0.0%	1.3%	0.0%	0.0%	1.3%	#40···
05/06	43 71.7%	16 26.7%	0 0.0%	59 98.3%	1 1.7%	0 0.0%	0 0.0%	0.0%	60 100.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	<10µg
	29	15 (2)	0.0 %	46 (2)	0	0.0%	0.0%	0.0 %	46 (2)	0.0 %	0.0 %	0.0 %	0.0%	0.0 %	0.0 %	<10µg
06/07	61.7%	31.9%	4.3%	97.9%	0.0%	0.0%	0.0%	0.0%	97.9%	2.1%	0.0%	0.0%	0.0%	0.0%	2.1%	ч тору
	40	14	1	55	1	0.070	0.070	0.070	56	0	0.070	0.0 %	0.070	0.070	2.170	<10µg
07/08	71.4%	25.0%	1.8%	98.2%	1.8%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	. 549
	37	3	1	41	1	2	0	2	44	0	0	0	0	0	0	<10µg
08/09	84.1%	6.8%	2.3%	93.2%	2.3%	4.5%	0.0%	4.5%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	. 5
00/40	44	15	5	64	1	0	0	0	65	0	0	0	0	0	0	<10µg
09/10	67.7%	23.1%	7.7%	98.5%	1.5%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Workers under medical surveillance in the scrap industry

Table 29 The breakdown of male lead workers under medical surveillance in the scrap industry, by highest recorded blood-lead level [µg/100ml] and year (Figures are for the total number of male workers, of which the number under 18 years of age is given in brackets)

Year	<10µg	10-19µg	20-24µg	25-29µg	30-34µg	35-39µg	<40µg	40-49µg	50-59µg	60-69µg	70-79µg	80+µg	70+μg	Median range
92/93							100	17	5	13	6	4	10	<40µg
92/93							69.0%	11.7%	3.4%	9.0%	4.1%	2.8%	6.9%	
93/94							167	25	12	5	3	3	6	<40µg
33/34							77.7%	11.6%	5.6%	2.3%	1.4%	1.4%	2.8%	
94/95							198	44	18	9	1	2	3	<40µg
000							72.8%	16.2%	6.6%	3.3%	0.4%	0.7%	1.1%	
95/96							200	41	22	8	2	1	3	<40µg
00/00							73.0%	15.0%	8.0%	2.9%	0.7%	0.4%	1.1%	
96/97	6	4	27	20	29	16	156	40	12	3	2	0	2	25-29µg
	30.		12.7%	9.4%	13.6%	7.5%	73.2%	18.8%	5.6%	1.4%	0.9%	0.0%	0.9%	
97/98		5	42	33	40	33	233	42	24	13	4	3	7	25-29µg
	26.		13.2%	10.3%	12.5%	10.3%	73.0%	13.2%	7.5%	4.1%	1.3%	0.9%	2.2%	
98/99*	31	62	45	56	41	38	273	51	36	10	2	2	4	25-29µg
	8.3%	16.6%	12.0%	15.0%	11.0%	10.2%	73.0%	13.6%	9.6%	2.7%	0.5%	0.5%	1.1%	
99/00	73	82	46	52	31	34	318	34	23	4	1	0	1	20-24µg
	19.2%	21.6%	12.1%	13.7%	8.2%	8.9%	83.7%	8.9%	6.1%	1.1%	0.3%	0.0%	0.3%	
00/01	63	101	56	61	35	34	350	34	20	3	0	0	0	20-24µg
	15.5%	24.8%	13.8%	15.0%	8.6%	8.4%	86.0%	8.4%	4.9%	0.7%	0.0%	0.0%	0.0%	
01/02	42 (2)	80	50	38	37	30	277 (2)	33	14	1	1	1	2	20-24µg
	12.8%	24.5%	15.3%	11.6%	11.3%	9.2%	84.7%	10.1%	4.3%	0.3%	0.3%	0.3%	0.6%	
02/03	61	74	34	41	33	20	263	35	15	2	0	1	1	20-24µg
	19.3%	23.4%	10.8%	13.0%	10.4%	6.3%	83.2%	11.1%	4.7%	0.6%	0.0%	0.3%	0.3%	
03/04	42 (1)	66	30	23	19	18	198 (1)	30	6 (1)	3	0	0	0	20-24µg
	17.7%	27.8%	12.7%	9.7%	8.0%	7.6%	83.5%	12.7%	2.5%	1.3%	0.0%	0.0%	0.0%	
04/05	77	66	27	13	25	15	223	19	12	4	1	0	1	10-19µg
	29.7%	25.5%	10.4%	5.0%	9.7%	5.8%	86.1%	7.3%	4.6%	1.5%	0.4%	0.0%	0.4%	
05/06	95	114	34	27	21	12	303	17	12	4	0	0	0	10-19µg
	28.3%	33.9%	10.1%	8.0%	6.3%	3.6%	90.2%	5.1%	3.6%	1.2%	0.0%	0.0%	0.0%	10.10
06/07	119	109	36	29	8	8	309	11	4	1	0	0	0	10-19µg
	36.6%	33.5%	11.1%	8.9%	2.5%	2.5%	95.1%	3.4%	1.2%	0.3%	0.0%	0.0%	0.0%	
07/08	280	124	31	14	15	11	475	9	5	1	1	1	2	<10µg
	56.9%	25.2%	6.3%	2.8%	3.0%	2.2%	96.5% 270	1.8%	1.0%	0.2%	0.2%	0.2%	0.4%	10.10ug
08/09	95 31.6%	106 35.2%	8.6%	21 7.0%	10 3.3%		89.7%	13	12 4.0%	1.0%	1.0%	0 0%	1.0%	10-19µg
	259	35.2% 79	8.6%	7.0%	3.3%	4.0%	89.7% 414	4.3%	4.0%	1.0%	1.0%	0.0%	1.0%	<10µg
09/10	50.3%	79 15.3%	4.7%	4.1%	2.7%	3.3%		31 (1)	6.6%	4.9%	0.8%	1.4%	2.1%	∼ τυμg
	50.3%	15.3%	4.7%	4.1%	2.7%	3.3%	80.4%	6.0%	6.6%	4.9%	0.8%	1.4%	2.1%	

Table 30 The breakdown of female lead workers under medical surveillance in the scrap industry, by highest recorded blood-lead level [µg/100ml] and year

Year	<10µg	10-19µg	20-24μg	maie ieau v <25µg	25-29μg	30-34µg	35-39µg	30- 39μg	<40µg	40-49μg	50-59μg	60-69µg	70-79μg	80+µg	>40µg	Median range
92/93									1	0	0	0	0	0	0	<40µg
0=/00									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
93/94									6 100.0%	0.0%	0.0%	0 0.0%	0 0.0%	0.0%	0 0.0%	<40µg
									6	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0%	<40µg
94/95									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	ччору
05/00									7	0	0	0	0	0	0	<40µg
95/96									100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
96/97	No females	under medical	surveillance													
97/98	1	10	1	11	0	0	0	0	11	0	0	0	0	0	0	<20µg
31730	90	.9%	9.1%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
98/99*	1	5	0	6	1	0	0	0	7	0	0	0	0	0	0	10-19µg
	14.3%	71.4%	0.0%	85.7%	14.3%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
99/00	2	6	1	9	1	0	0	0	10	0	0	0	0	0	0	10-19µg
	20.0%	60.0%	10.0%	90.0%	10.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
00/01	4	2	0	6	0	0	0	0	6	0	0	0	0	0	0	<10µg
_	66.7%	33.3%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<10µg
01/02	60.0%	40.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	< 10μg
	4	2	0	6	0	0	0	0	6	0.070	0.070	0	0	0.070	0	<10µg
02/03	66.7%	33.3%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-10
03/04	No females	under medical	surveillance			l				I	I					
0.4/0.5		7		7	0	0	0	0	7	0	0	0	0	0	0	<25µg
04/05		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
05/06	2	2	1	5	0	0	0	0	5	0	0	0	0	0	0	10-19µg
05/06	40.0%	40.0%	20.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
06/07	No females	under medical	surveillance													
07/08		18		18	0	0	0	0	18	0	0	0	0	0	0	<25µg
0.700		100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
08/09		1		1	0	0	0	0	1	0	0	0	0	0	0	<25µg
	_ 1	100.0%		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
09/10	21	1	0	22	0	0	0	0	22	0	0	0	0	0	0	<10µg
	95.5%	4.5%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

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