

National Blood Transfusion Service:

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Register of HBsAg Positive Donations

A preliminary report was issued several years ago. It was intended that this would be followed by annual updates and extensions of the analysis as data became available and as time permitted. We are, as yet still working towards this ideal. The main reasons for delay are, paradoxically, at opposite ends of the spectrum: on the one hand, the huge amount of archived data received from some centres and on the other hand the delay in receiving figures from others. In future we will attempt to work to deadlines to produce a report by the end of February each year based on all data received by the end of the first week of January, regardless of omissions. Unfortunately such omissions will make comparative analyses complicated and will thereby reduce the overall value of the exercise. Obviously we are receptive to any suggestions that colleagues may have for resolving the difficulties.

The same basic format will be maintained each year so that individual RTCs can monitor their own statistics and compare them with any national trends. While maintaining the basic format we will try and introduce improvements in presentation and also extra analyses.

Table 1 is an example of the basic spreadsheet that has been devised. It contains the figures received from the RTCs and shows the initial calculations. Each centre will receive a copy of their own spreadsheet. Initially we have assumed that first time donors comprise one sixth of the total number of donors bled, unless it was specified otherwise. However, for later years we have taken 'new donor' totals from the anti-HIV returns. The other figures are calculated as follows (the letters refer to the column identification on the spreadsheet):

$$\begin{aligned}
 F &= (C/B) \times 100000, \\
 G &= (D/E) \times 100000, \\
 H &= B/C, \\
 I &= E/D, \\
 J &= (D/C) \times 100
 \end{aligned}$$

Thus F is the overall HBsAg rate expressed as the number of HBsAg positives per 100,000 donations and H is the same figure expressed as a rate i.e. 1:xxx. G and I are the comparable figures for first-time donors. J is the percentage of HBsAg positives who are first-time blood donors. We would expect all HBsAg positives from previously tested donors to be from donors infected since the time of their last donation and thus this figure should be close to 100%, with

a very small component from donors contracting HBV since their last donation; [nb we are aware of the possibility that donors may be bled as 'old donors' when their previous [first] donation has not been tested, perhaps because it was a 'part pack with no samples' available for testing].

It is possible that some centres will not have detected any HBsAg positives in a year. This will appear in the tables as zero. Because of the statistical shortcomings of dealing with small denominators and large numerators we have summarised data by grouping the three Thames centres together, the five Scottish Centres and the other centres as the 'Rest of UK'. There is also a summary for the total UK.

Tables 2a, b and c compare the total HBsAg positive rate in the RTCs per 100,000 donations (from new and established donors) per year. The table also shows the values for 'Thames', Scotland, the Rest of the UK and the total for the UK. This summary is also presented graphically in Figure 2.

Tables 3a, b and c compare the HBsAg positive rate for first-time donors between centres and is presented in the same format as above. If the number of first-time donors bled has not been reported or available from the 'anti-HIV testing data' we have assumed it to be one sixth of the total donations. Figure 3 is a graphic representation of the 3 preceding tables.

Tables 4a, b and c show the percentage of HBsAg positives who are first-time donors. This is shown graphically in figure 4. We would expect this figure to be close to 100% with a very low rate of HBsAg positivity in established donors, and those found positive being recent infections. There are striking differences between centres in this respect, which merits further investigation.

Table/figure 5 shows the change with time of the ratio of HBeAg to anti-HBe for various groups of donors. There is no obvious change with time for the various groups. It appears that UK born donors have a higher ratio [i.e. there are more anti-HBe than HBeAg] than do donors born outside the UK.

Table/figure 6 shows the proportion of males to females and how it changes by year. We would expect the numbers of male HBsAg positive donors to have decreased with the introduction of self-exclusion by donors at risk of contracting AIDS. However no such change is obvious, possibly reflecting a preponderance of carriers from areas where HBV infection is endemic.

We regret the delay in production of this report but future updates of the computer files will now be much easier. The spreadsheets and databases are complex and there is always the possibility that an error may occur. We apologise if this is the case and would be very grateful for any feed-back. We have attempted to improve the appearance of the notification form and a blank is enclosed.

GRO-C

GRO-C

DR Howell

JAJ Barbara

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CONFIDENTIAL

National Blood Transfusion Service:

Register of HBsAg Positive Donations

Please complete this sheet for each HBsAg positive donor and
return to Dr JAJ Barbara, NLBTC, LONDON NW9 5BG

Reporting Centre

Reporting Officer

Donor Details

Donation Number.....

[when first detected]

Donation Date.....

Name.....

[not used in electronic databases, leave blank if necessary]

Gender.....

Date of Birth.

Ethnic origin/country of birth

Any relevant history?

With dates, if available: hepatitis,
scarification [tattoo, acupuncture, ear
piercing] intravenous drug abuse,
homosexuality

Any other donations?.....

VIROLOGY

HBsAg.....

[test and titre if available]

Anti-HBc total

Anti-HBc IgM

HBeAg/Ab status.....

ALT

AST

Other LFT

Anti-HAV/HCV.....

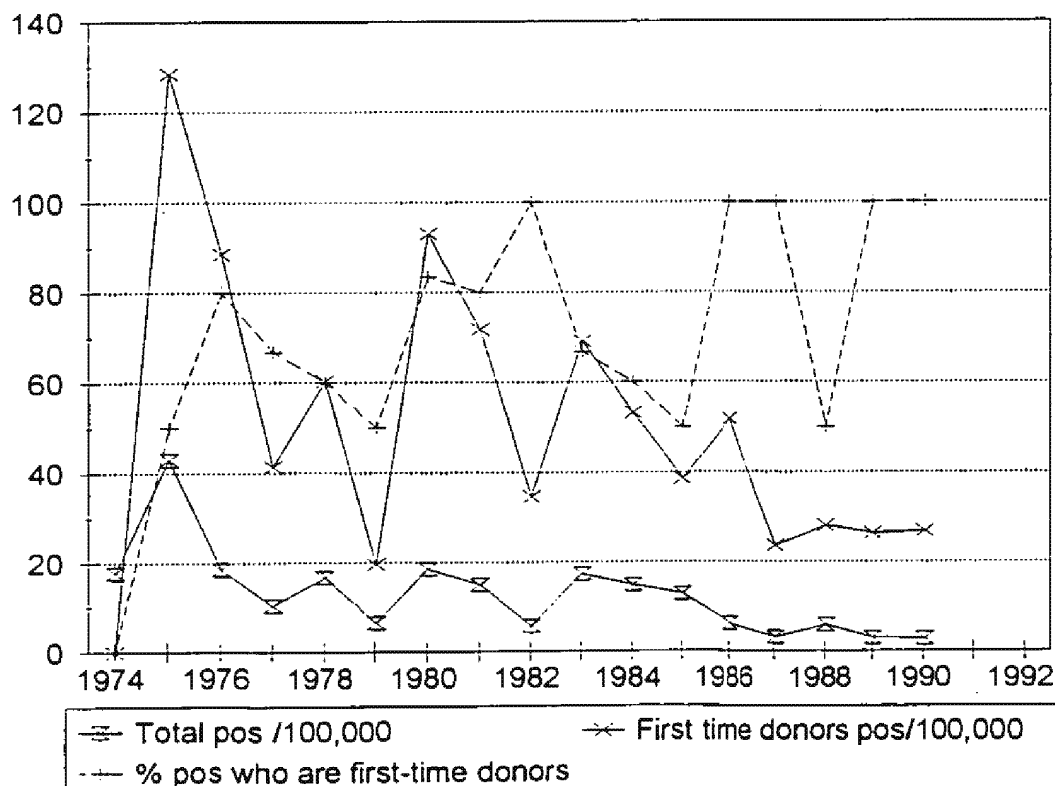
[if history of jaundice]

Carrier or acute infection?

Other information

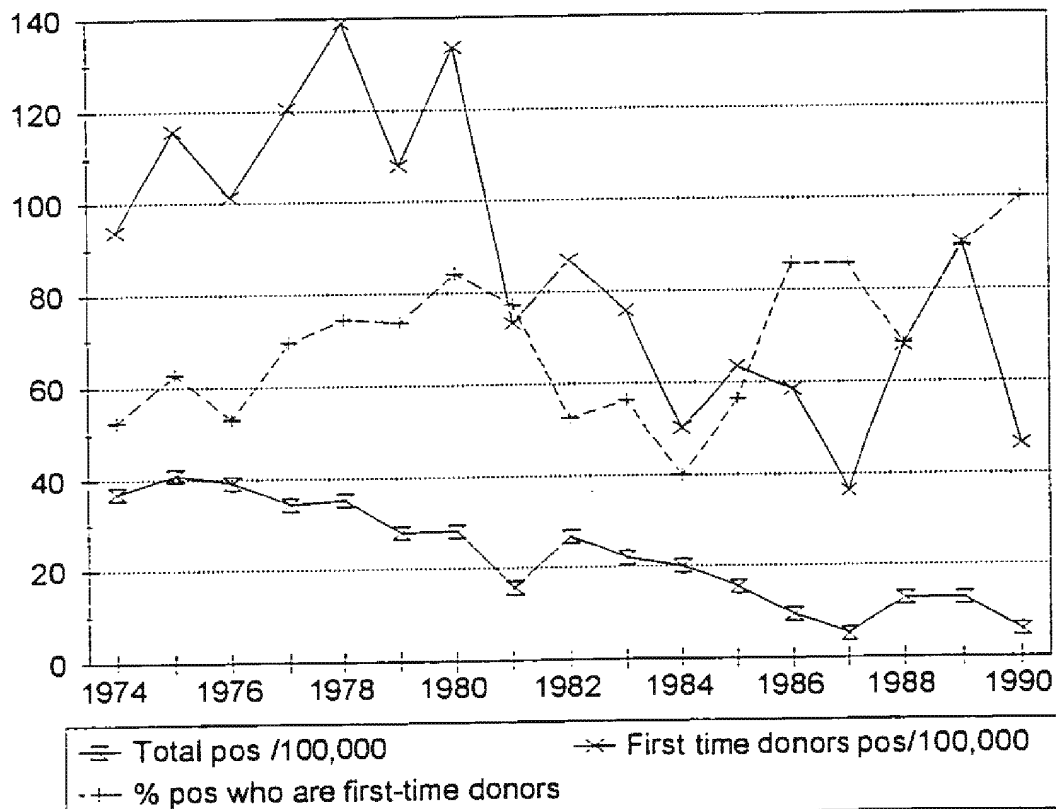
RTC = ABERDEEN

A	B	C	D	E	F	G	H	I	J
	No. of Donations Aberdeen	Total No. Conf. HBsAg Pos Aberdeen	No. of these, '1st time' Aberdeen	No. '1st time' Donors Aberdeen	Overall, pos.rate(/ 100000) Aberdeen	1st time, pos.rate(/ 100000) Aberdeen	Overall, pos. rate (1:.....) Aberdeen	1st time, pos.rate (1:.....) Aberdeen	% of conf. pos. who are 1st time Aberdeen
1971									
1972	21156	6	0	3526	28	0	3526	0	0
1973	21960	4	3	3660	18	82	5490	1220	75
1974	22612	4	0	3769	18	0	5653	0	0
1975	23364	10	5	3894	43	128	2336	779	50
1976	27125	5	4	4521	18	88	5425	1130	80
1977	29089	3	2	4848	10	41	9696	2424	67
1978	29841	5	3	4974	17	60	5968	1658	60
1979	30565	2	1	5094	7	20	15283	5094	50
1980	32252	6	5	5375	19	93	5375	1075	83
1981	33434	5	4	5572	15	72	6687	1393	80
1982	34803	2	2	5801	6	34	17402	2900	100
1983	34733	6	4	5789	17	69	5789	1447	67
1984	33863	5	3	5644	15	53	6773	1881	60
1985	31183	4	2	5197	13	38	7796	2599	50
1986	32582	2	2	3873	6	52	16291	1937	100
1987	32731	1	1	4251	3	24	32731	4251	100
1988	34023	2	1	3568	6	28	17012	3568	50
1989	34371	1	1	3792	3	26	34371	3792	100
1990	35047	1	1	3725	3	27	35047	3725	100
1991									
1992									



RTC = GLASGOW

A	B	C	D	E	F	G	H	I	J
	No. of Donations Glasgow	Total No. Conf. HBsAg Pos Glasgow	No. of these, '1st time' Glasgow	No. '1st time' Donors Glasgo	Overall, pos.rate(/ 100000) Glasgow	1st time, pos. rate(/ 100000) Glasgow	Overall, pos. rate (1:....) Glasgow	1st time, pos.rate (1:....) Glasgow	% of conf. pos. who are 1st time Glasgow
1971	107251	70	67	20725	65	323	1532	309	96
1972	107462	40	38	21173	37	179	2687	557	95
1973	107249	43	26	21239	40	122	2494	817	60
1974	113312	42	22	23452	37	94	2698	1066	52
1975	124701	51	32	27644	41	116	2445	864	63
1976	130022	51	27	26664	39	101	2549	988	53
1977	133736	46	32	26542	34	121	2907	829	70
1978	133203	47	35	25198	35	139	2834	720	74
1979	135831	38	28	25949	28	108	3575	927	74
1980	135008	38	32	23968	28	134	3553	749	84
1981	139546	22	17	23196	16	73	6343	1364	77
1982	142056	38	20	23039	27	87	3738	1152	53
1983	145944	32	18	23730	22	76	4561	1318	56
1984	148909	30	12	23898	20	50	4964	1992	40
1985	147955	23	13	20475	16	63	6433	1575	57
1986	148791	14	12	20528	9	58	10628	1711	86
1987	136477	7	6	16511	5	36	19497	2752	86
1988	148296	19	13	19128	13	68	7805	1471	68
1989	148100	19	17	18838	13	90	7795	1108	89
1990	155534	9	9	19400	6	46	17282	2156	100
1991	173793	8	5	23612	5	21	21724	4722	63
1992									

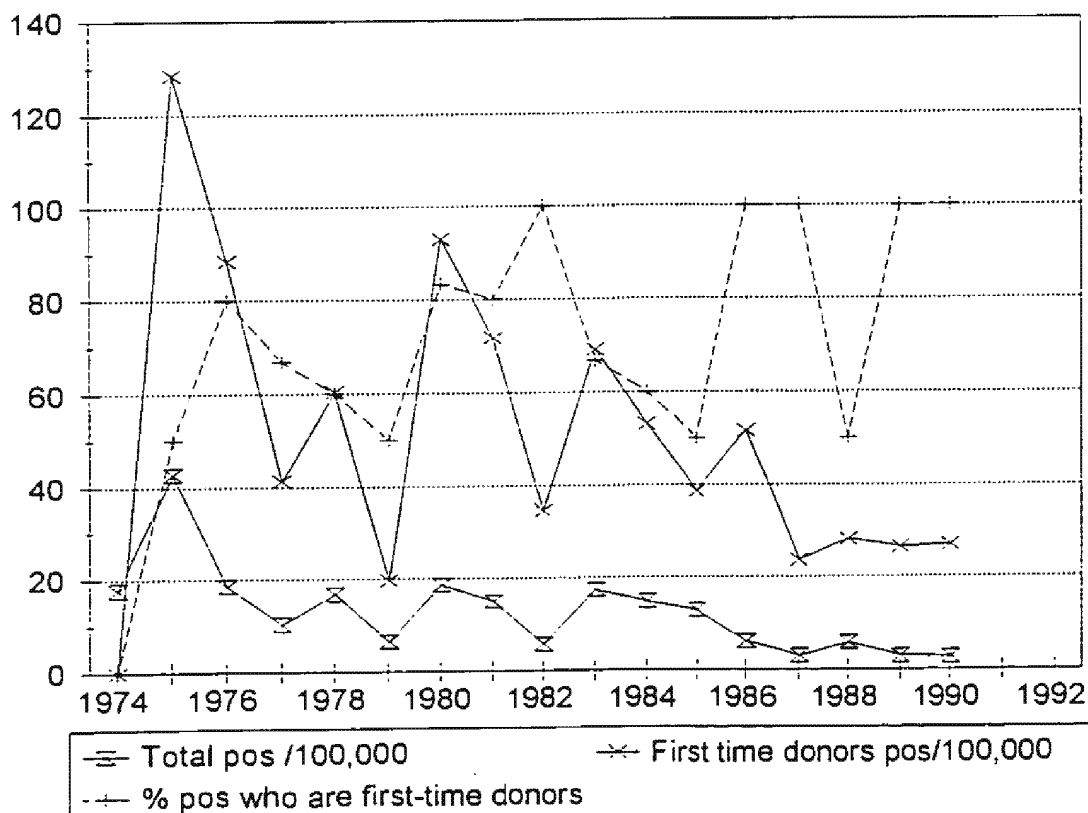


RTC = EDINBURGH

Data 1975 - 1990 for fiscal year

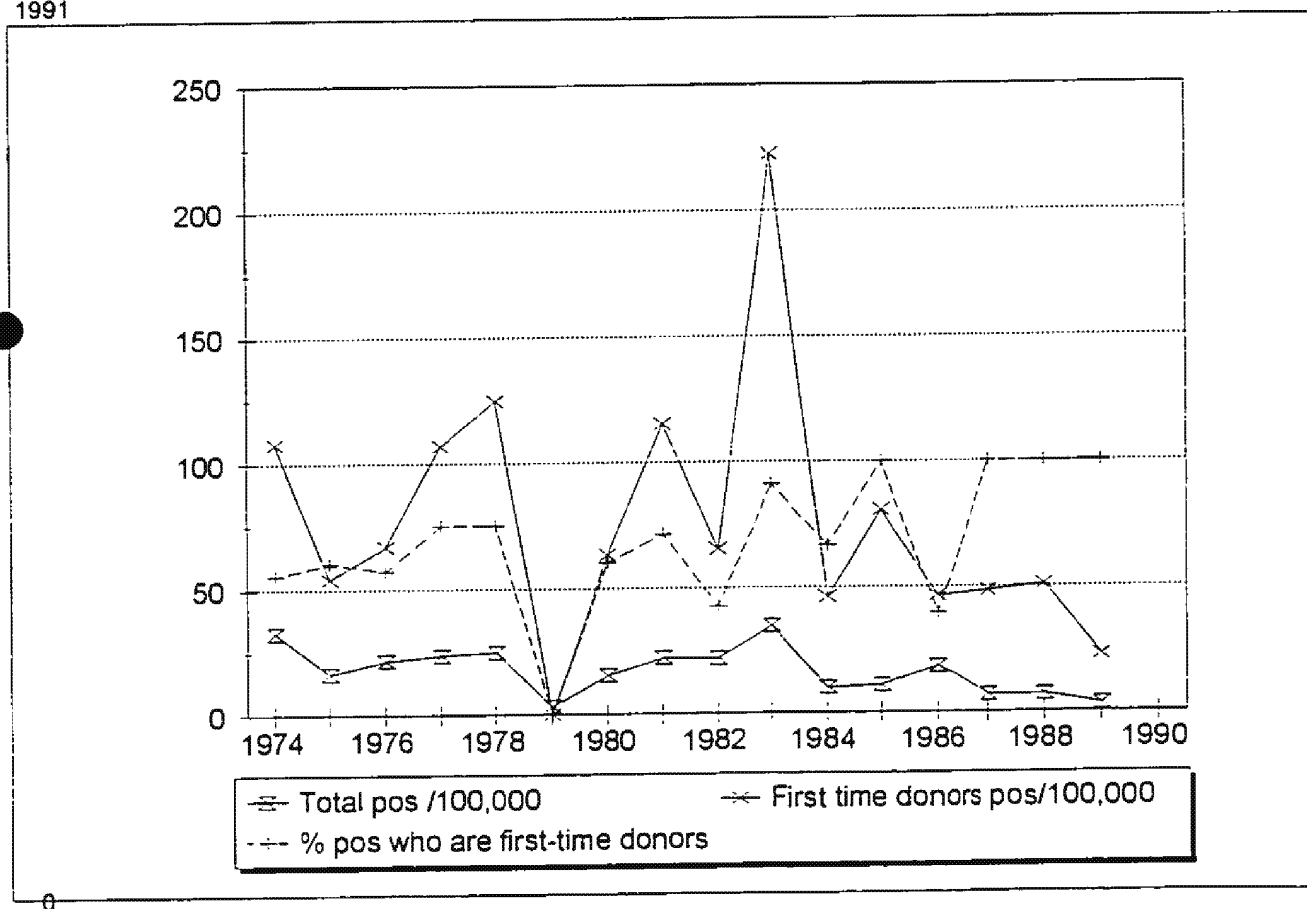
A	B	C	D	E	F	G	H	I	J
	No. of Donations	Total No. Conf. HBsAg Pos	No. of these, '1st time'	No. '1st time' Donors	Overall, pos. rate(/ 100000)	1st time, pos. rate(/ 100000)	Overall, pos. rate (1:....)	1st time, pos. rate (1:....)	% of conf. pos. who are 1st time
	Edinburgh	Edinburgh	Edinburgh	Edinburgh	Edinburgh	Edinburgh	Edinburgh	Edinburgh	Edinburgh
1971									
1972									
1973									
1974									
1975	59326	19	9	9379	32	96	3122	1042	47
1976	62239	19	9	12688	31	71	3276	1410	47
1977	69878	15	5	12683	21	39	4659	2537	33
1978	75302	16	7	10957	21	64	4706	1565	44
1979	77318	15	15	10174	19	147	5155	678	100
1980	75639	9	8	10829	12	74	8404	1354	89
1981	74537	9	6	11268	12	53	8282	1878	67
1982	73985	9	6	10931	12	55	8221	1822	67
1983	74146	10	8	10972	13	73	7415	1372	80
1984	81232	11	10	12478	14	80	7385	1248	91
1985	83224	3	2	11860	4	17	27741	5930	67
1986	84992	5	4	15889	6	25	16998	3972	80
1987	75839	6	6	13497	8	44	12640	2250	100
1988	81765	7	5	11714	9	43	11681	2343	71
1989	88278	6	6	12921	7	46	14713	2154	100
1990	86869	7	7	11663	8	60	12410	1666	100
1991	0								
1992									

1993



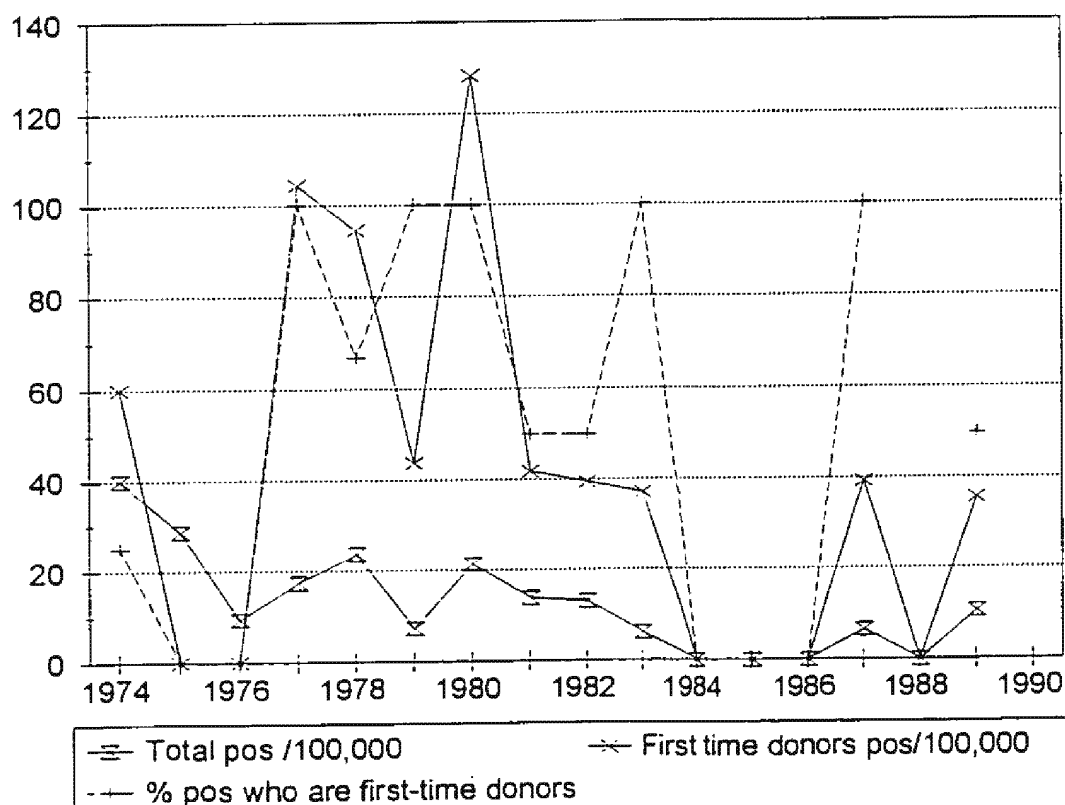
RTC = DUNDEE

A	B	C	D	E	F	G	H	I	J
	No. of Donations	Total No. Conf. HBsAg Pos	No. of these, '1st time'	No. '1st time' Donors	Overall, pos.rate/ 100000	1st time, pos. rate/ 100000	Overall, pos. rate (1:....)	1st time, pos.rate (1:....)	% of conf. pos. who are 1st time
	Dundee	Dundee	Dundee	Dundee	Dundee	Dundee	Dundee	Dundee	Dundee
1971	24654	11	4	4191	45	95	2241	1048	36
1972	25258	5	2	6263	20	32	5052	3132	40
1973	26207	7	5	4361	27	115	3744	872	71
1974	27551	9	5	4638	33	108	3061	928	56
1975	30685	5	3	5549	16	54	6137	1850	60
1976	32531	7	4	5986	22	67	4647	1497	57
1977	33564	8	6	5619	24	107	4196	937	75
1978	32263	8	6	4816	25	125	4033	803	75
1979	32663	1	0	4527	3	0	32663	0	0
1980	32392	5	3	4731	15	63	6478	1577	60
1981	31596	7	5	4344	22	115	4514	869	71
1982	31751	7	3	4580	22	66	4536	1527	43
1983	31544	11	10	4495	35	222	2868	450	91
1984	30074	3	2	4331	10	46	10025	2166	67
1985	27278	3	3	3722	11	81	9093	1241	100
1986	27220	5	2	4317	18	46	5444	2159	40
1987	28637	2	2	4144	7	48	14319	2072	100
1988	29038	2	2	3924	7	51	14519	1962	100
1989	32027	1	1	4409	3	23	32027	4409	100
1990									
1991									



RTC = INVERNESS

A	B	C	D	E	F	G	H	I	J
	No. of Donations Inverness	Total No. Conf. HBsAg Pos Inverness	No. of these, '1st time' Inverness	No. '1st time' Donors Inverness	Overall, pos.rate(/ 100000) Inverness	1st time, pos. rate(/ 100000) Inverness	Overall, pos. rate (1:....) Inverness	1st time, pos.rate (1:....) Inverness	% of conf. pos. who are 1st time Inverness
1971	8500	7	1	1417	82	71	1214	1417	14
1972	9000	0	0	1500	0	0	0	0	0
1973	9500	3	1	1583	32	63	3167	1583	33
1974	10000	4	1	1667	40	60	2500	1667	25
1975	10482	3	0	1747	29	0	3494	0	0
1976	10632	1	0	1772	9	0	10632	0	0
1977	11505	2	2	1918	17	104	5753	959	100
1978	12697	3	2	2116	24	95	4232	1058	67
1979	13701	1	1	2284	7	44	13701	2284	100
1980	14033	3	3	2339	21	128	4678	780	100
1981	14388	2	1	2398	14	42	7194	2398	50
1982	15256	2	1	2543	13	39	7628	2543	50
1983	16226	1	1	2704	6	37	16226	2704	100
1984	14539	0	0	2423	0	0	0	0	0
1985	15274	0	0	2546	0	0	0	0	0
1986	16163	0	0	2694	0	0	0	0	0
1987	15322	1	1	2554	7	39	15322	2554	100
1988	17663	0	0	2397	0	0	0	0	0
1989	18812	2	1	2828	11	35	9406	2828	50
1990									
1991									
1992									
1993									



HBsAg POSITIVES per 100,000 DONATIONS

Table 2a

	Brentwood	NLBTC	Tooting	Thames	Aberdeen	Dundee	Glasgow	Edinburgh	Inverness	Scotland
1971						45	65		82	63
1972	60		55	57	28	20	37		0	31
1973	32		37	35	18	27	40		32	35
1974	22	27	20	23	18	33	37		40	34
1975	20	40	19	26	43	16	41	32	29	35
1976	27	33	24	28	18	22	39	31	9	32
1977	37	32	19	26	10	24	34	21	17	27
1978	26	38	19	26	17	25	35	21	24	28
1979	23	39	17	25	7	3	28	19	7	20
1980	25	29	12	20	19	15	28	12	21	21
1981	17	27	12	18	15	22	16	12	14	15
1982	22	26	18	22	6	22	27	12	13	19
1983	13	22	11	15	17	35	22	13	6	20
1984	19	21	13	17	15	10	20	14	0	16
1985	17	13	11	13	13	11	16	4	0	11
1986	6	12	9	10	6	18	9	6	0	8
1987	7	15	13	12	3	7	5	8	7	6
1988		16		16	6	7	13	9	0	10
1989		19		19	3	3	13	7	11	9
1990		10		10	3		6	8		6
1991		14		14			5			5
1992										

HBsAg POSITIVES per 100,000 DONATIONS

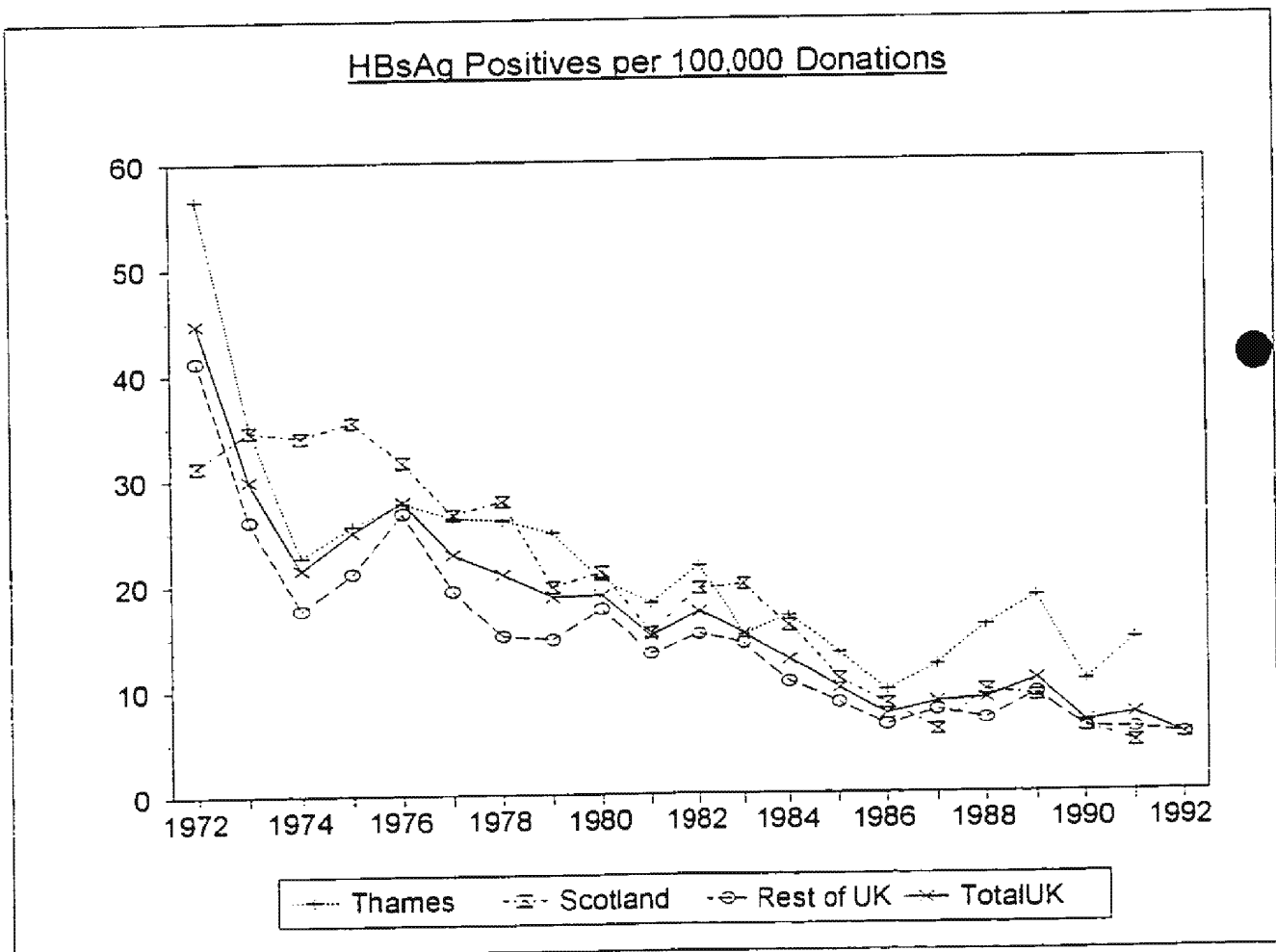
Table 2b

	Army	Belfast	Birmingham	Bristol	Cambridge	Cardiff	Lancaster	Leeds	Liverpool	Manchester
1971								35		
1972		47	46				51	19		
1973		29	23	28			20	16		
1974		14	18	21			37	13		
1975		22	26	23			54	32		
1976		19	18	31			60	13		
1977		11	19	17			42	15		
1978		15	13	14			25	9		
1979		15	13	18		17	39	12		
1980		15	18	19		12	32	9	34	
1981		16	10	10		9	26	13	38	20
1982		5	16	16		10	14	17	22	16
1983	56	6	19	19		7	19	12	22	20
1984	34	2	8	6	15	6	25	7	19	12
1985	29	8	5	7	6	3	8	7	7	10
1986	29	3	6	5	8	3	14	8	6	11
1987	7	2	6	9	5	15	6	5	9	6
1988			10		6		16	5	7	16
1989			8		7		5		10	8
1990			6		2		1			11
1991			6						7	7
1992			3							

HBsAg POSITIVES per 100,000 DONATIONS

Table 2c

	Newcastle	Oxford	Sheffield	Southampton	Rest of UK	Total UK
1971						63
1972					41	45
1973		38	15		26	30
1974		12	18		18	21
1975		17	17		21	25
1976		16	29		27	28
1977		24	14		19	23
1978		13	10		15	21
1979		19	8		15	19
1980		12	19	22	18	19
1981		10	9	10	13	15
1982	4	11	12	10	15	17
1983	6	5	10	16	14	15
1984	5	12	4	11	11	13
1985	7	4	5	10	9	10
1986	5	2	7	11	6	7
1987	4	9	7	7	8	9
1988		4			7	9
1989		12			9	11
1990		6	4		6	7
1991		7	3		6	7
1992					5	5



HBsAg POSITIVES per 100,000 NEW DONORS

Table 3a

	Brentwood	NLBC	Tooting	Thames	Aberdeen	Dundee	Glasgow	Edinburgh	Inverness	Scotland
1971						95	323		71	273
1972	361		110	191		32	179		0	123
1973	117		125	122	82	115	122		63	113
1974	99	128	72	96	0	108	94		60	84
1975	92	206	78	121	128	54	116	96	0	102
1976	119	172	95	125	88	67	101	71	0	85
1977	209	168	102	145	41	107	121	39	104	91
1978	137	208	96	139	60	125	139	64	95	110
1979	133	214	100	143	20	0	108	147	44	94
1980	144	162	55	109	93	63	134	74	128	108
1981	96	146	70	100	72	115	73	53	42	71
1982	125	149	86	115	34	66	87	55	39	68
1983	76	118	47	76	69	222	76	73	37	86
1984	107	98	60	84	53	46	50	80	0	55
1985	97	76	47	69	38	81	63	17	0	46
1986	35	79	36	50	52	46	58	25	0	42
1987	44	101	55	68	24	48	36	44	39	39
1988		104		104	28	51	68	43	0	52
1989		126		126	26	23	90	46	35	61
1990		69		69	27		46	60		49
1991		72		72			21			21
1992										

HBsAg POSITIVES per 100,000 NEW DONORS

Table 3b

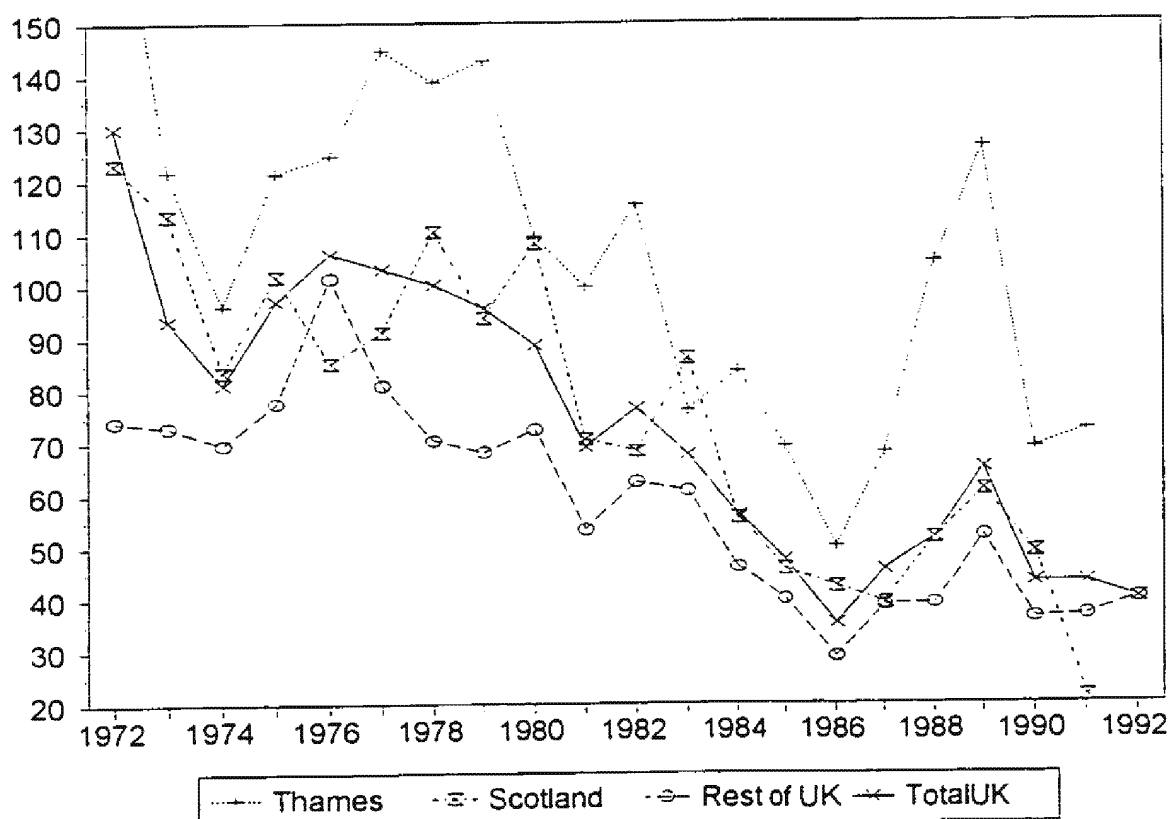
	Army	Belfast	Birmingham	Bristol	Cambridge	Cardiff	Lancaster	Leeds	Liverpool	Manchester
1971										
1972		284	123							
1973		174	107	62			96	21		
1974		84	101	70			66	29		
1975		82	126	65			95	19		
1976		107	94	98			214	62		
1977		37	106	69			76	59		
1978		90	71	52			175	55		
1979		90	78	44		64	103	51		
1980		74	99	42		49	112	57		
1981		78	57	28		41	92	57	102	
1982	0	28	71	35		43	72	75	115	104
1983	167	39	92	49		40	15	86	70	59
1984	103	9	50	28	55	31	45	58	59	102
1985	175	46	28	36	34	20	111	32	66	64
1986	86	18	27	3	20	19	45	37	28	53
1987	43	10	24	43	26	88	105	39	25	61
1988			55		19		48	27	36	57
1989			43		35		146	28	20	138
1990			39		15		34		49	50
1991			39				14			77
1992			18						61	90

HBsAg POSITIVES per 100,000 NEW DONORS

Table 3c

	Newcastle	Oxford	Sheffield	Southampton	Rest of UK	Total UK
1971						273
1972					74	130
1973		123			73	93
1974		66	65		70	81
1975		89	70		78	97
1976		84	123		101	106
1977		121	75		81	103
1978		69	53		70	100
1979		108	47		68	96
1980		57	81	98	72	89
1981		35	42	47	53	69
1982	27	57	54	60	62	76
1983	32	30	59	84	61	67
1984	23	50	21	52	46	56
1985	45	5	28	45	40	47
1986	23	11	38	57	29	35
1987	5	49	41	38	39	45
1988		27			39	52
1989		64			52	65
1990		35	28		36	43
1991		33	22		37	43
1992					40	40

HBsAg Positives per 100,000 New Donors



Percentage of HBsAg Positives who were 'first time' donors

Table 4a

	Brentwood	NLBTC	Tooting	Thames	Aberdeen	Dundee	Glasgow	Edinburgh	Inverness	Scotland
1971						36	96		14	82
1972	100		33	56		40	95		0	78
1973	60		56	58	75	71	60		33	61
1974	74	79	60	71	0	56	52		25	47
1975	79	85	70	79	50	60	63	47	0	56
1976	74	86	65	75	80	57	53	47	0	53
1977	95	89	92	92	67	75	70	33	100	64
1978	89	92	84	89	60	75	74	44	67	67
1979	97	92	100	96	50	0	74	100	100	79
1980	94	94	77	90	83	60	84	89	100	84
1981	92	90	94	92	80	71	77	67	50	73
1982	94	96	79	89	100	43	53	67	50	55
1983	95	90	70	84	67	91	56	80	100	68
1984	96	79	76	83	60	67	40	91	0	55
1985	96	96	70	87	50	100	57	67	0	61
1986	89	89	67	81	100	40	86	80	0	77
1987	100	100	72	89	100	100	86	100	100	94
1988		100		100	50	100	68	71		70
1989		100		100	100	100	89	100	50	90
1990		91		91	100		100	100		100
1991		97		97			63			63
1992										

Percentage of HBsAg Positives who were 'first time' donors

Table 4b

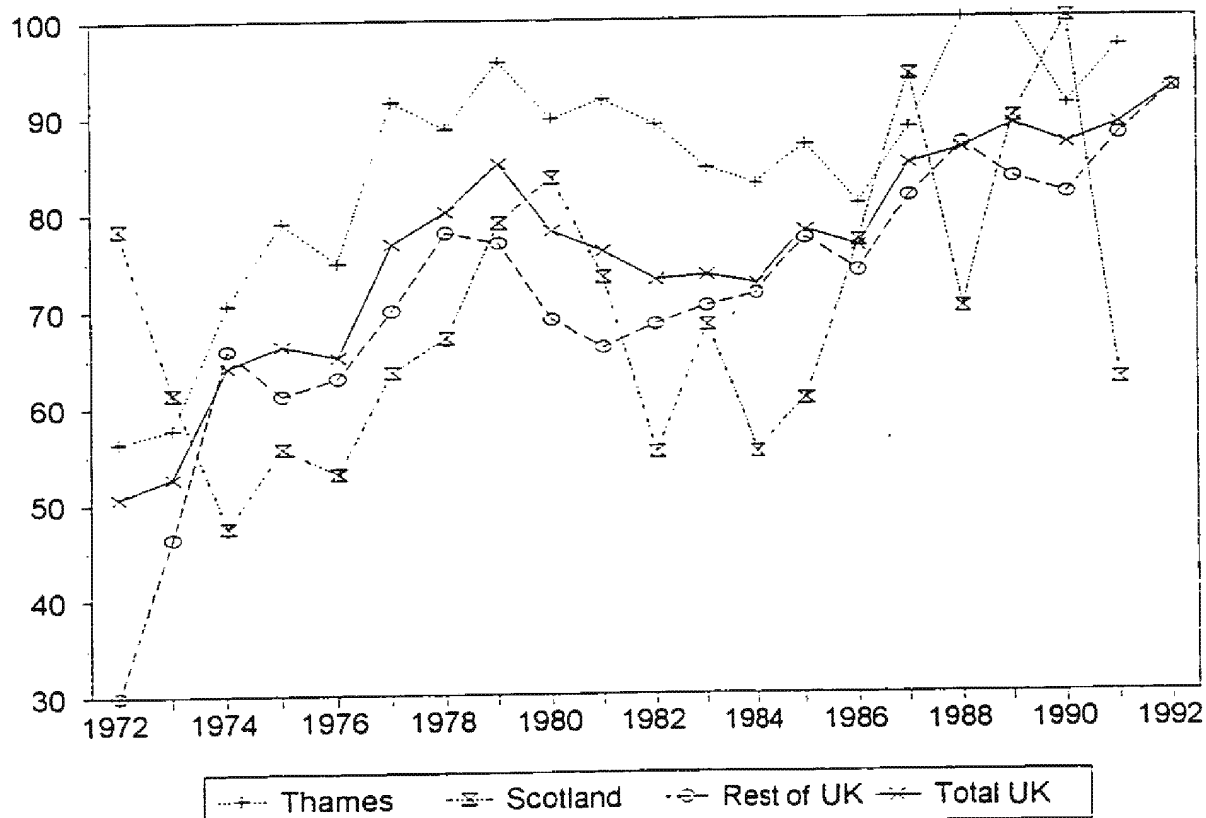
	Army	Belfast	Birmingham	Bristol	Cambridge	Cardiff	Lancaster	Leeds	Liverpool	Manchester
1971										
1972		100	45							
1973		100	77	37			29	19		
1974		100	93	55			56	30		
1975		62	81	47			41	25		
1976		92	85	53			63	33		
1977		57	92	68			23	76		
1978		100	88	61			73	63		
1979		100	96	40		64	64	92		
1980		80	94	38		70	50	76		
1981		80	90	47		75	42	100	50	
1982		100	72	37		75	40	95	50	88
1983	50	100	80	44	0	100	13	85	54	60
1984	50	100	100	73	62	83	27	83	44	84
1985	100	100	91	83	100	100	53	73	58	87
1986	50	100	75	11	43	100	60	90	67	92
1987	100	100	73	81	80	100	67	77	71	92
1988			95		50		75	100	70	100
1989			94		71		90	88	50	80
1990			100		100		67		83	55
1991			100				100			75
1992			100						90	90

Percentage of HBsAg Positives who were 'first time' donors
Newcastle Oxford Sheffield Southampton Rest of UK Total UK

Table 4c

1971						82
1972					30	51
1973		53			46	53
1974		90	59		66	64
1975		87	70		61	66
1976		87	70		63	65
1977		84	89		70	77
1978		87	92		78	80
1979		95	92		77	85
1980		79	71	74	69	78
1981		58	79	78	66	76
1982	100	85	78	100	68	73
1983	88	100	94	87	70	73
1984	83	71	86	80	72	73
1985	100	25	89	78	77	78
1986	83	100	92	90	74	76
1987	20	90	92	86	81	85
1988		100			87	86
1989		93			83	89
1990		88	78		82	87
1991		78	100		88	89
1992					93	93

Percentage of HBsAg Positives who were 'First Time' Donors



Change in 'e' Ratio [Ab/Ag] by Year

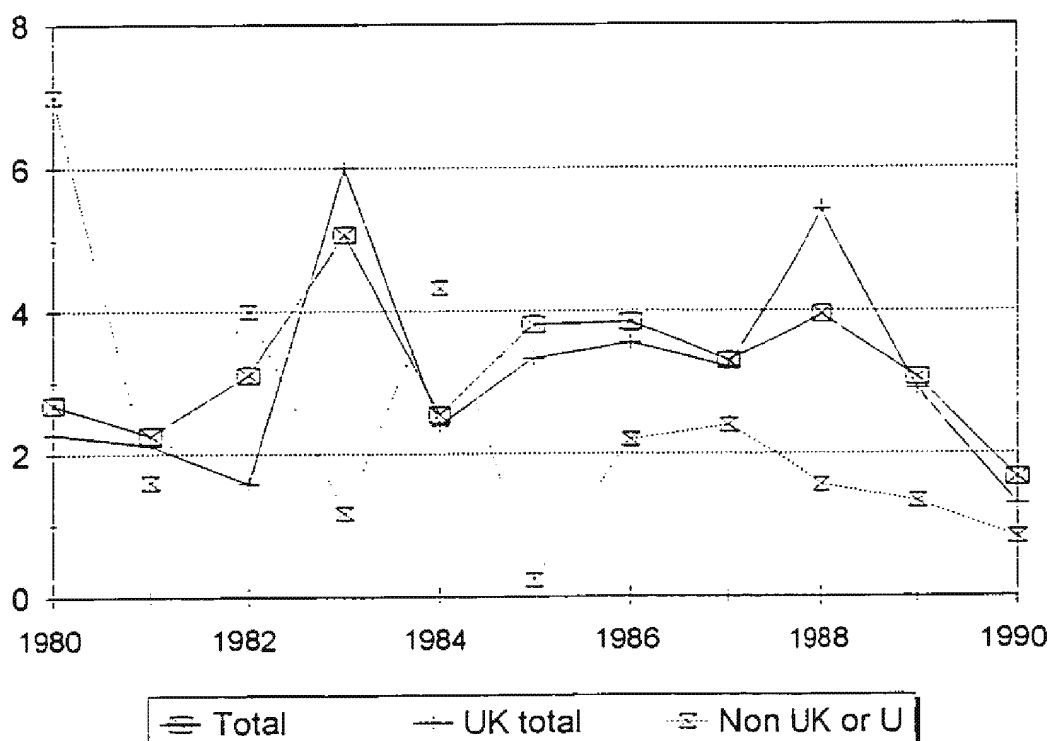
Table/Figure 5

(information plotted where reported)

Total Donors UK Born Non UK Born (or unknown)

	Anti-HBe	HBeAg	Ratio	Anti-HBe	HBeAg	Ratio	Anti-HBe	HBeAg	Ratio
1970									
1971									
1972									
1973									
1974	18	1	18.0	16	1	16.0			
1975	20	3	6.7	16	3	5.3			
1976	16	9	1.8	8	6	1.3	8	3	2.7
1977	24	7	3.4	14	6	2.3	12	0	ERR
1978	46	6	7.7	19	4	4.8	12	1	12.0
1979	44	8	5.5	27	1	27.0	6	10	0.6
1980	35	13	2.7	16	7	2.3	14	2	7.0
1981	43	19	2.3	17	8	2.1	8	5	1.6
1982	59	19	3.1	19	12	1.6	8	2	4.0
1983	66	13	5.1	36	6	6.0	7	6	1.2
1984	74	29	2.6	36	15	2.4	13	3	4.3
1985	61	16	3.8	30	9	3.3	6	26	0.2
1986	50	13	3.8	32	9	3.6	11	5	2.2
1987	109	33	3.3	45	14	3.2	12	5	2.4
1988	91	23	4.0	38	7	5.4	14	9	1.6
1989	83	27	3.1	35	12	2.9	8	6	1.3
1990	43	26	1.7	18	14	1.3	9	11	0.8

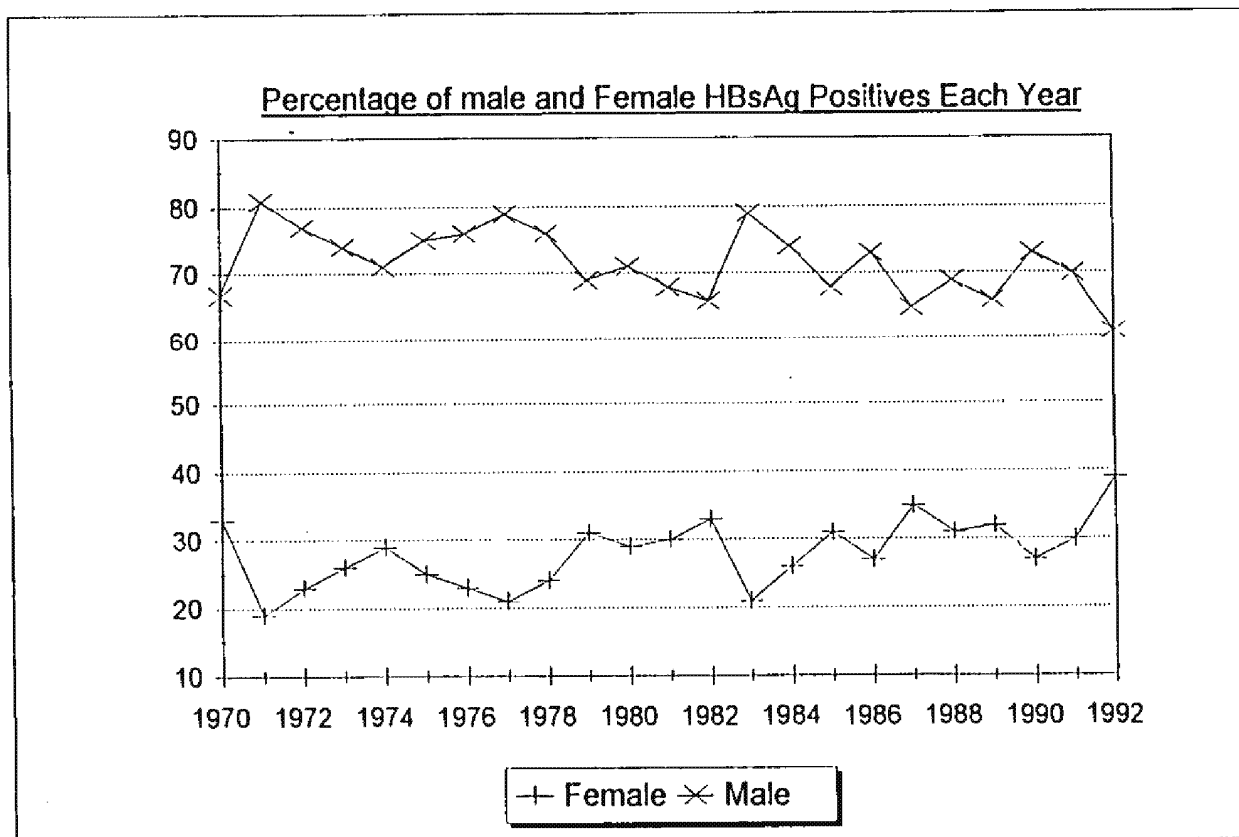
Ratio of Anti-HBe to HBeAg



HBsAg Positives by Year and Gender

Table/Figure 6

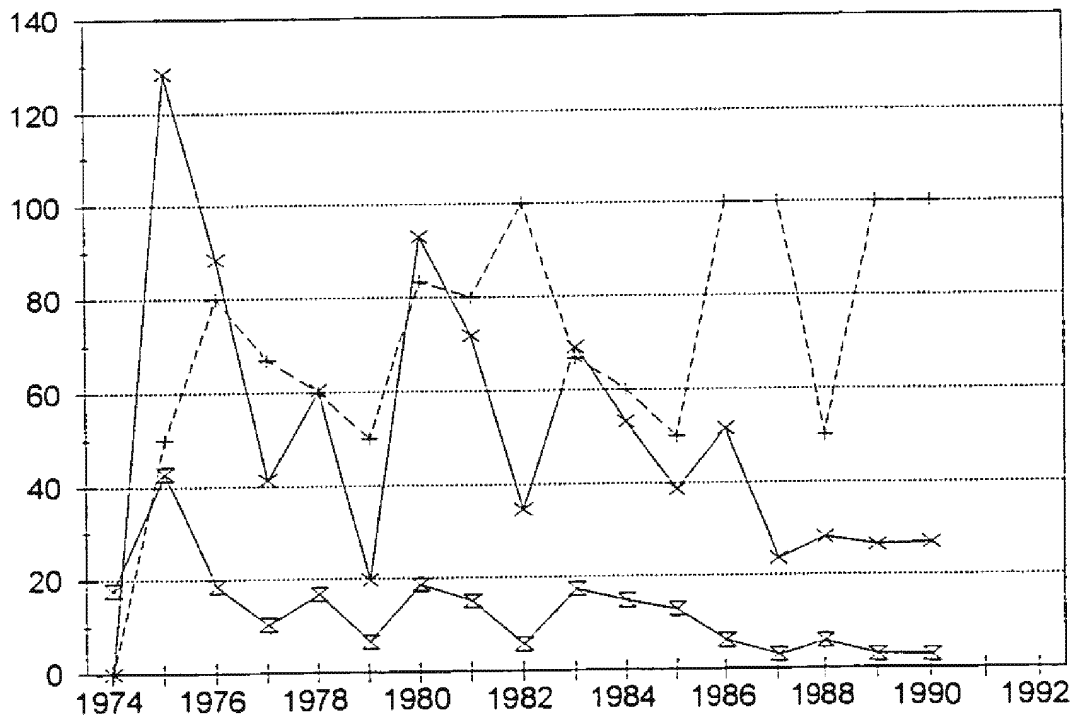
	Females		Males	
	Number	%	Number	%
1970	1	33	2	67
1971	6	19	26	81
1972	25	23	82	77
1973	34	26	95	74
1974	34	29	85	71
1975	37	25	109	75
1976	33	23	107	76
1977	32	21	122	79
1978	35	24	108	76
1979	43	31	96	69
1980	33	29	82	71
1981	34	30	76	68
1982	44	33	88	66
1983	25	21	92	79
1984	35	26	100	74
1985	26	31	58	68
1986	22	27	61	73
1987	61	35	114	65
1988	46	31	101	69
1989	48	32	98	66
1990	26	27	72	73
1991	27	30	63	70
1992	18	39	28	61



RTC = EDINBURGH

Data 1975 - 1990 for fiscal year

A	B	C	D	E	F	G	H	I	J
	No. of Donations	Total No. Conf. HBsAg Pos	No. of these, '1st time'	No. '1st time' Donors	Overall, pos. rate(/ 100000)	1st time, pos. rate(/ 100000)	Overall, pos. rate (1:....)	1st time, pos. rate (1:....)	% of conf. pos. who are 1st time
	Edinburgh	Edinburgh	Edinburgh	Edinburgh	Edinburgh	Edinburgh	Edinburgh	Edinburgh	Edinburgh
1971									
1972									
1973									
1974									
1975	59326	19	9	9379	32	96	3122	1042	47
1976	62239	19	9	12688	31	71	3276	1410	47
1977	69878	15	5	12683	21	39	4659	2537	33
1978	75302	16	7	10957	21	64	4706	1565	44
1979	77318	15	15	10174	19	147	5155	678	100
1980	75639	9	8	10829	12	74	8404	1354	89
1981	74537	9	6	11268	12	53	8282	1878	67
1982	73985	9	6	10931	12	55	8221	1822	67
1983	74146	10	8	10972	13	73	7415	1372	80
1984	81232	11	10	12478	14	80	7385	1248	91
1985	83224	3	2	11860	4	17	27741	5930	67
1986	84992	5	4	15889	6	25	16998	3972	80
1987	75839	6	6	13497	8	44	12640	2250	100
1988	81765	7	5	11714	9	43	11681	2343	71
1989	88278	6	6	12921	7	46	14713	2154	100
1990	86869	7	7	11663	8	60	12410	1666	100
1991	0								
1992									
1993									



Total pos / 100,000
 First time donors pos / 100,000
 % pos who are first-time donors