A long term analysis of the

HFEA Register data

1991-2006

HUMAN FERTILISATION & EMBRYOLOGY AUTHORITY

Foreword 4
Executive Summary 4
An introduction to the HFEA Register 8
The Verification Process 10
1. Patient Numbers and Treatment Cycles 12
2). Live birth and multiple birth rates for IVF only treatment cycles 15
3). Live birth and multiple birth rates for micromanipulation (ICSI & SUZI) treatment cycles 16
4). Live birth and multiple birth rates for all IVF & micromanipulation treatment cycles 17
5). Live birth and multiple birth rates for Donor Insemination (DI) 1991 - 2006 18
6). IVF only Live Birth Rates by age of patient using their own eggs 19
7). Micromanipulation (ICSI & SUZI) Live Birth Rates by age of patient using their own eggs 24
8). Live Birth Rates for all IVF & micromanipulation by age of patient using their own eggs 29
9). Live Birth Rates for all IVF & ICSI treatment cycles by age of patient using fresh embryos (created from their own stimulated treatments to collect fresh eggs) 1991 - 2005 34
10). Do success rates for IVF & ICSI differ with patient age? 40
11). Are more women having IVF later in life? 41
12). Infertility trends over recent years 42
13). Treatment type by source of eggs/embryos 44
14). Single vs. multiple outcomes for all IVF treatments 45
15). Live birth outcomes vs. number of embryos transferred 46
16). Frozen Embryo Replacement (FER) clinical pregnancy rate and outcomes for various sources of gametes/embryos 65
17). Fresh Stimulated Own eggs (FSO) clinical pregnancy rate and outcomes for partner/donated sperm 69
18). Fresh unstimulated (natural cycle) own egg clinical pregnancy rate and outcomes for partner/donated sperm. 72
19). Use of donated sperm in IVF (excluding micromanipulation) combined fresh and frozen cycles 75
20). Clinical pregnancy rate and outcomes for various donated eggs/embryos 78
21). Live birth and adverse outcome comparison for micromanipulation (ICSI & SUZI) only cycles using fresh and frozen eggs/embryos from all sources 81
22). Live birth and adverse outcome comparison for mixed IVF & micromanipulation cycles using fresh and frozen eggs/embryos from all sources 82
Table 22 details the outcome of treatment cycles involving IVF, ICSI and SUZI. 82
23). Live birth and adverse outcome comparison for IVF only cycles using fresh and frozen eggs/embryos from all sources 83
24). Live birth and adverse outcome comparison for all IVF and micromanipulation cycles using fresh and frozen eggs/embryos from all sources 84

25). Egg & Embryo usage 85
26). PGD PGS activity 90
27). DI live birth and adverse outcome data 91
28). DI outcome rates by patient age 94
29). Single women and same sex couples receiving treatment 98
Glossary of Terms/Abbreviations 99

Foreword

Since the creation of the Human Fertilisation and Embryology Authority in 1991, licensed treatment centres have provided data on their activities. This has the potential to be an invaluable resource for clinics themselves, for policy makers and for researchers. Data on its own, however, has limited use. It is from the analysis of information that real insights can be obtained.

So welcome to the first ever long term data analysis report produced by the HFEA. It has been assembled from the wealth of information we have collected over the past 16 years and it represents the largest single source of data on Assisted Reproductive Technology in the world.

The HFEA would like to extend its thanks to the UK licensed treatment centres who provide and verify the information. Some interpretation of data analysis adds tremendous value, however, so thanks also to the Writing Group. We are grateful to them for making this document much more than a set of tables but, I hope you will agree a useful reference document.

We hope to update, expand and improve this report periodically as new verified information becomes available. Our aim is to produce further papers expanding on the analysis of data held within the HFEA Register.

Shirley Harrison, HFEA Chair

Executive Summary

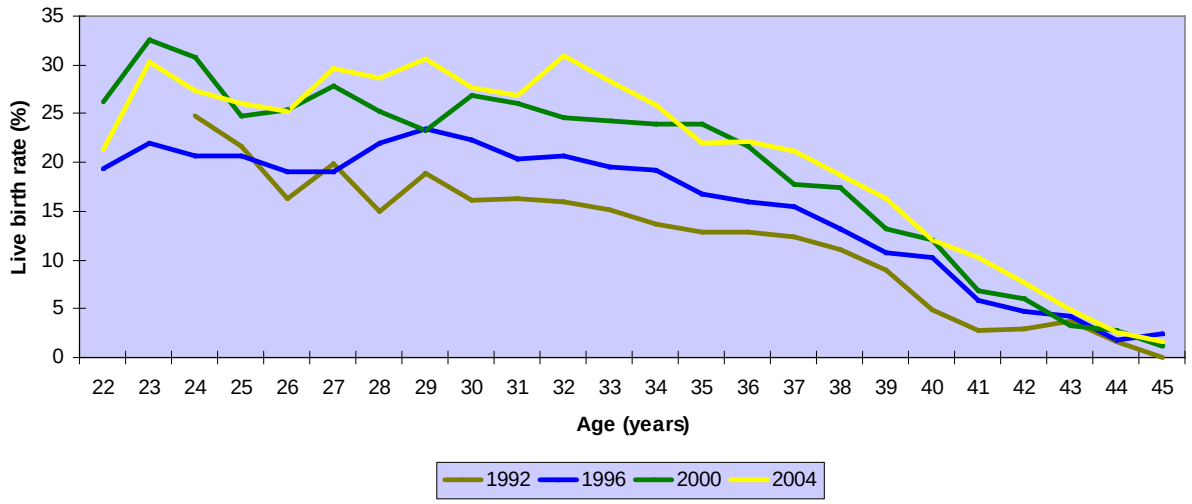
This report contains a great deal of data which is also available separately as an Excel spreadsheet. This report is expected to be the first in a line of similar reports. As new ideas and methods for analysis of the data emerge, a new suite of reports will be made available. Periodically, these reports will also be updated as new data becomes available.

This report is aimed primarily at those people working within the sector who have often requested a long term analysis of the data submitted to the Register, as well as researchers. The HFEA also recognises that patients and their partners may wish to investigate the subject of Assisted Reproductive Technology further before embarking on, during, or after their journey through fertility treatment.

The key points raised within the main body of the document are summarised below.

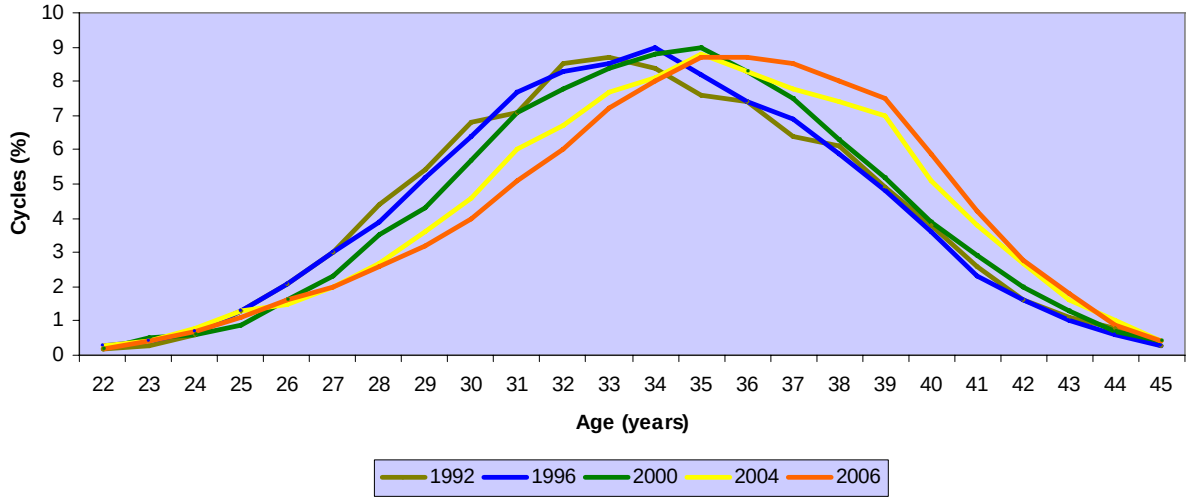
Nationally, the chances of a patient having a healthy baby following IVF has steadily increased since 1992, the first full calendar year of Register data. As a patient gets older a clinic's ability to overcome infertility diminishes.

Do success rates differ with patient age for women who have had IVF or ICSI?

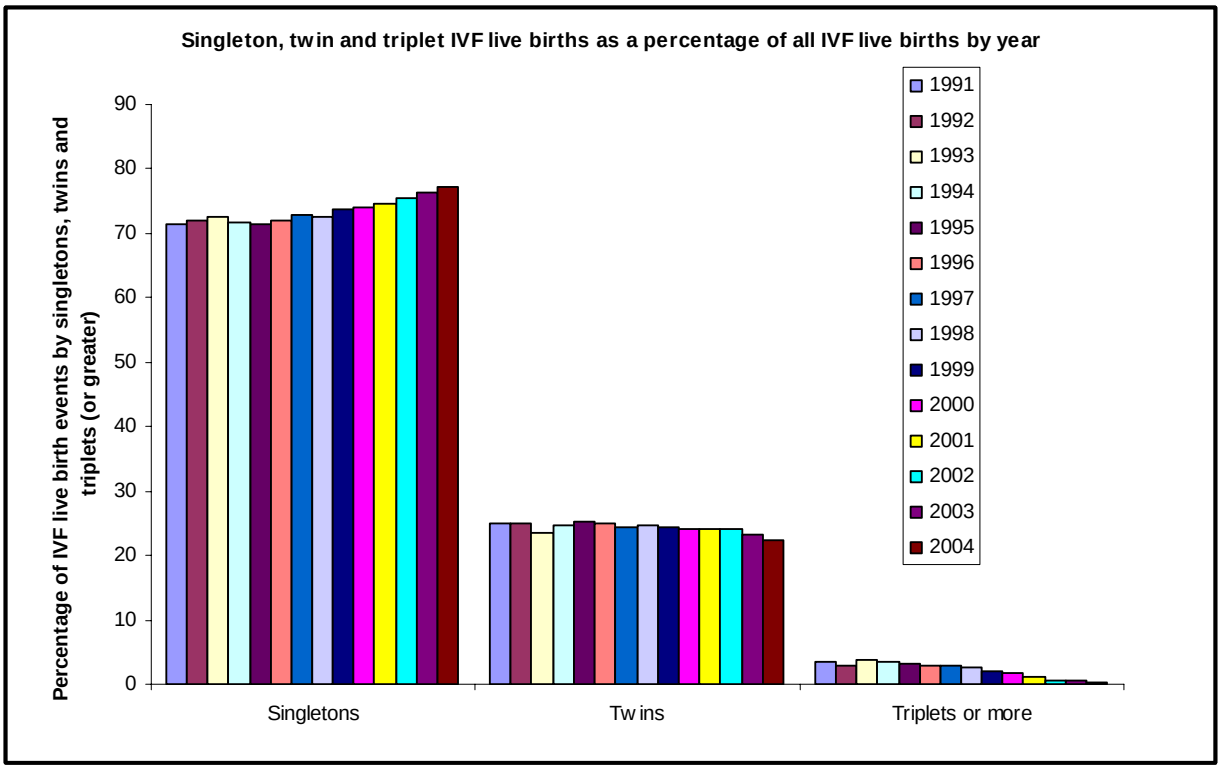


From the late 1990's onwards, an increasing proportion of women have entered into fertility treatment at a later age. This trend mirrors natural conception where the average age of childbirth has increased over the years.

Are more women having IVF or ICSI later in life?



Because of a change in practice which, in part, is due to a change in formal regulatory policy, the proportion of singleton births has risen whilst the proportion of twins has dropped slightly. The high proportion of twins following IVF treatment remains a concern internationally since the complications and risks associated with multiple births for both the mother and child are higher than for a singleton birth. The proportion of triplet births has reduced to a negligible level comparable to natural conception. Again, this is largely as a result of regulatory policy.



The number of cycles involving donated gametes has fallen throughout the last ten years, and this appears to be mainly attributable to the widespread introduction of IntraCytoplasmic Sperm Injection (ICSI) treatments which overcomes many of the issues related to poor quality sperm, allowing both partners to be genetically related to the child born. The success rates for ICSI are significantly higher than those for Donor Insemination (DI) within each age band and this might also explain the shift from DI to ICSI.

The proportion of lesbian couples receiving licensed fertility treatment has grown slightly over the years, though this remains a very small percentage of the total treatment cycles.

Male factor is the largest cause of reported infertility, rising each year.

The vast majority of treatment cycles involve the use of the patient's own eggs. Of these, most cycles are fresh, with a small proportion involving the use of frozen eggs or embryos. This use of frozen embryos is expected to increase significantly as cryopreservation techniques improve and general awareness of the risk of multiple births increases. This is expected to discourage clinics from potentially over-using stimulatory drugs and to encourage the storage of "spare" eggs or embryos produced for later use. Embryo surrogacy is very rare.

Currently, the format in which data is collected does not allow the HFEA to produce accurate cumulative success rates for fresh and frozen cycles. This will be addressed for the data collected from the winter of 2007.

The proportion of still births and children born with congenital abnormalities reported is low, and comparable to rates resulting from natural conception. It is recognised that this information is self reported by patients and therefore subject to error.

The HFEA hope that you find this document and the associated data useful. Whilst the HFEA is willing to accept requests for further analysis or information, it must be appreciated that the resources of the organisation are limited and we will not always be able to provide further material.

An introduction to the HFEA Register

Since the creation of the HFEA in August 1991, data has been submitted from clinics undertaking licensed Assisted Reproductive Technology treatments. This information has, until recently, been collected using paper forms which were keyed by HFEA staff into a database. With the introduction of Electronic Data Interchange, this paper-based activity has been phased out. The requirement for clinics to submit data will continue into the future, though the format and data items themselves are likely to evolve.

The HFEA Register is a large database which has evolved over time. Between 1991 and 1999 a system developed in FoxPro was used which had an associated set of four paper forms. In April 1999 a new set of five paper forms were introduced supported by a new Register developed in Sybase. This system was replaced in March 2003, with information collected from March 2002 onwards entered retrospectively. Data manually entered into this system goes through a double data entry process where two individuals enter each form separately and the two versions are compared allowing differences to be resolved.

All data from the FoxPro and Sybase systems has been transferred into the new Register. Additionally, most of the original paper forms have been scanned and linked to the appropriate Register record.

In 2005 and 2006 an Historic Audit Project was carried out to cross check the information held on the Register for treatments resulting in a live birth (or potential live birth), and information held about donors. This has increased confidence in the data which will ultimately be used to answer the questions specified within the Human Fertilisation & Embryology Act – namely whether a person was born as a result of licensed treatment using Assisted Reproductive Technology and, if this treatment involved the use of donated gametes, whether they may be related to the person that they intend to marry (or have children with).

Because of problems found with the Sybase Register used between 1999 and 2002, the data relating to treatments which took place between April 1999 and March 2002 has not been verified by the clinics and is therefore less reliable. Verification is an important part of the process to dramatically reduce the number of errors and potential gaps in our data. It is a time consuming process both for the HFEA and the clinics but leads to a level of data quality which far exceeds that of most other countries (which do not have the same statutory requirements to provide information to individuals).

In the past, statistics have usually been issued by the HFEA on a fiscal year basis. The HFEA has recently taken the decision to change this approach so that in future statistics will relate to the calendar year in which the treatment took place. This is the worldwide standard for reporting and makes reports easier to understand and compare. Whilst the following analysis presents cycle data up to and including 2006, outcome data is presented up to and including 2004 only. This is because the 2004 calendar year is the most recent year for which Register data has been verified with clinics, and live birth rates are typically underestimated in unverified data until all outcomes have been notified to the HFEA. Note that although data in the April 1999 – March 2002 time period has not been through the formal verification process with clinics (see below) it has been covered by the Historic Audit Project which followed up outcomes for those treatment cycles that resulted in a clinical pregnancy and therefore a potential live birth.

Like all large databases, there are bound to be errors within the database though a great deal of effort is spent in trying to minimise these. Where these errors are evident, they have been identified in the relevant data tables that follow.

The Verification Process

Our analysis of the data provided to us by clinics begins by identifying all the potential missing information which relates to a recorded treatment. For example, this includes potentially missing forms and missing pieces of key data on a form, such as the patient's date of birth (which is used to calculate their age at the date of treatment.)

The five forms used to collect information are quite complex and we have some 800 rules which are run over the data to identify problems. Until 2007 paper forms were used and this allowed human error to enter the process at a number of stages – both at the clinics and during the HFEA data entry process. Nowadays, all clinics use the Electronic Data Interchange facility provided to clinics to submit data to the HFEA Register.

The first stage of the verification process takes place at the HFEA once the rules have been run over the data for the period in question. This eliminates any obvious errors or keying errors introduced by our own staff when forms were entered manually.

Once this is complete, we write to each of the clinics, providing a large pack of information and a clear deadline. The pack contains:

- A copy of the relevant fields from the data that would previously have been sent to us which are used in the analysis
- A list of outstanding forms which relate to reported treatments
- A list of errors which have been identified in the data (after any HFEA introduced errors have been fixed)

This is a detailed activity but, in summary, each clinic must compare HFEA Register data (that the clinic has previously submitted to the HFEA) with its own patient records for each patient receiving treatment in the specified calendar year, together with the births that took place. At this stage clinics create new forms to fill our information gaps where necessary and/or submit correction forms to update incorrect information. With the move to Electronic Data Interchange the highlighting of errors happens almost in real time. Clinics are able to correct the information for any record in the Register related to their centre.

For the larger clinics, the data verification process is a significant burden and so several months are given to the clinics to complete this task and sign-off their data as correct. Most clinics complete this exercise on time. The HFEA is then able to publish individual clinic data through the "Find a clinic" directory facility which can be found on the HFEA website.

The onus throughout this process is on clinics verifying their own data. As the HFEA is only able to analyse a small percentage of treatments as part of their operational audit of licensed centres, it is imperative that clinics subscribe to the verification process and comply with deadlines set by the HFEA in order to achieve annual publication of these figures.

Ongoing checks

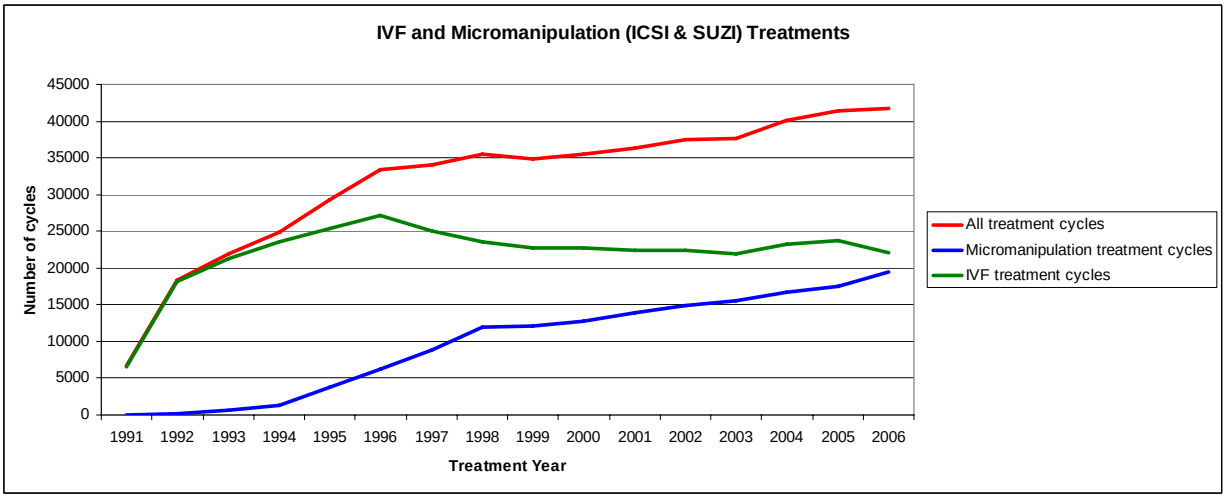
In addition to the process outlined above, an Operational Audit & Inspection is carried out at a number of clinics each year for recent treatments. During this activity a small, random sample of treatment records held at a clinic are compared for completeness and accuracy to the data submitted to the HFEA. This exercise does not attempt to locate all records related

to reported treatments, as in many cases the outcome may not yet be known. This information is used to provide the HFEA with confidence that the reporting of activity at a centre is comprehensive and this is used to satisfy our auditors, the National Audit Office. This information is included as part of the Inspection Report on the centre and sent to the relevant Licence Committee.

1. Patient Numbers and Treatment Cycles

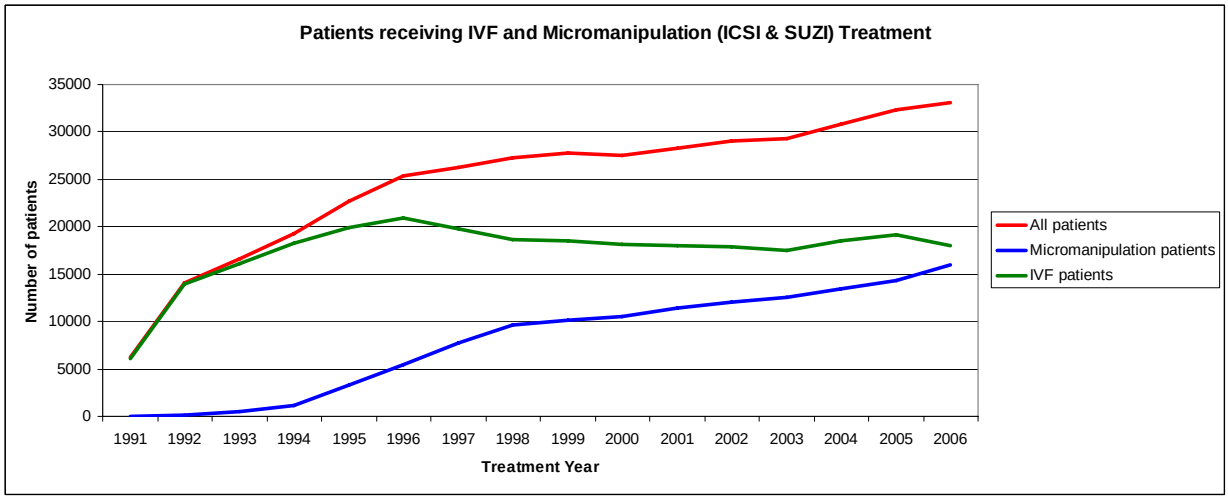
Since the introduction of ICSI in the early 90's there has been a steady increase in the number of treatment cycles using it. The number of treatment cycles using conventional IVF increased during the early 90's, but has remained relatively steady since that time. During the late 90's and the first half of this decade the slight drop in IVF treatments were more than compensated by the increase in ICSI treatment and so the combined number of cycles has continued to steadily increase since the start of the HFEA.

Figure 1a



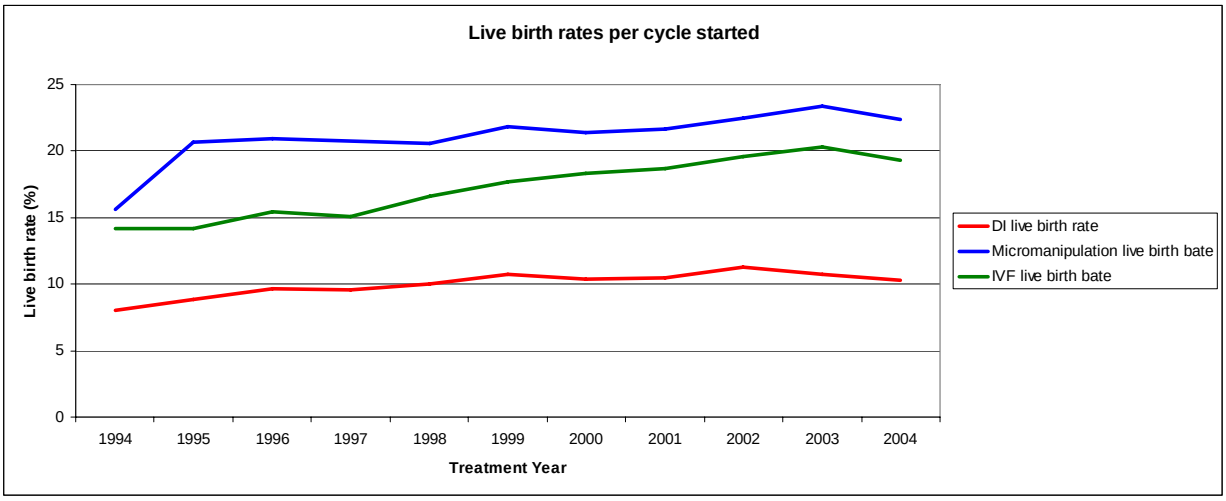
In most cases, patients have between 1 and 2 cycles of IVF or ICSI treatments before they are either pregnant or decide not to continue with treatment (the overall average being approximately 1.1 treatments per patient). The graph of IVF and ICSI patients (figure 1b) therefore closely matches the trends for cycle numbers.

Figure 1b



As shown in figure 1c below, the Live Birth Rates (LBR) for ICSI (and IVF) are typically much higher than those for Donor Insemination (DI). A DI patient typically has approximately a 1 in 10 (10%) chance of success, whilst an ICSI patient has slightly better than a 1 in 5 (20%) chance of success on average.

Figure 1c



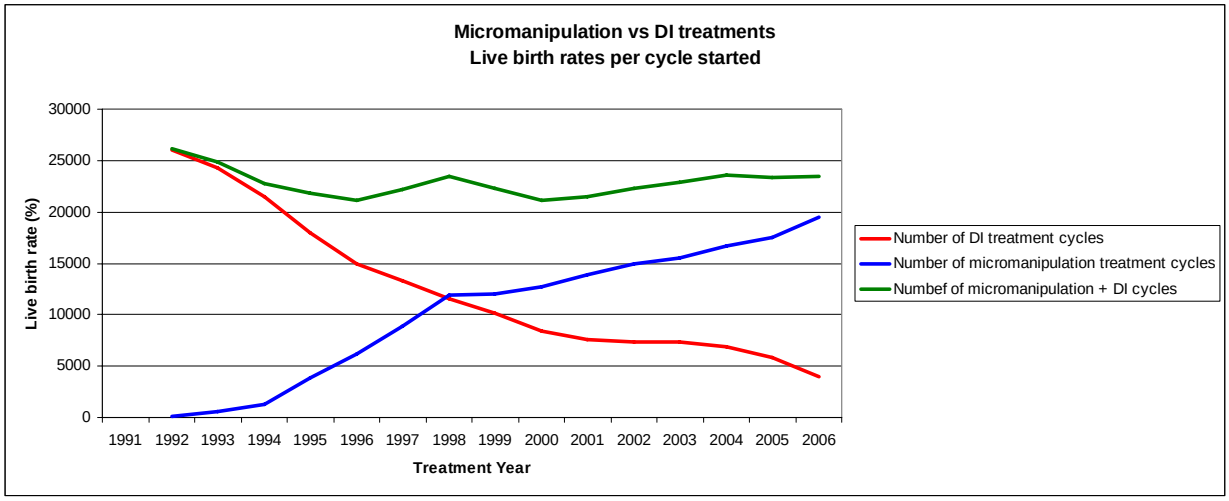
From a purely technical point of view the process in many ways mirrors the natural conception process and it is difficult to influence the success rate.

DI was originally introduced to get around the infertility of the patient's partner by using the sperm of a donor. However, with the introduction of ICSI many types of male infertility can be overcome. Thus, ICSI often replaces the use of DI since it allows a child genetically related to both parents to be born and doubles the chance of a successful outcome on average.

ICSI cannot overcome all types of male infertility for example the total absence of sperm, and so DI continues to be used to treat patients with male and female partners. The number of cycles for single sex couples in comparison to the total number of DI cycles is increasing each year.

Since the use of ICSI became established in the mid-nineties, it has effectively replaced the use of DI as shown in figure 1d where the combined total of micromanipulation cycles (over 99% of which are ICSI) and DI cycles has stabilised between 21000 and 24000 cycles per year.

Figure 1d


Micromanipulation vs DI treatments
Live birth rates per cycle started
Live birth rate (%)
30000
25000
20000
15000
10000
5000
0
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
Treatment Year
Number of DI treatment cycles
Number of micromanipulation treatment cycles
Numbef of micromanipulation + DI cycles

2). Live birth and multiple birth rates for IVF only treatment cycles

Table 2 provides the number of IVF only cycles together with their live birth outcomes. It includes cycles using the patients own eggs or donated eggs. Frozen embryo transfers are included.

In this table, IVF data does not include cycles involving micromanipulation.

Table 2

IVF								
Year	**Number of IVF patients**	**Number of IVF treatment cycles**	**IVF live birth rate**	**Multiple IVF live birth rate**	**IVF singleton births**	**IVF twin births**	**IVF triplet and higher order births**	**Total live IVF babies**
1991	6146	6609	14.1	28.5	664	233	32	1226
1992	13959	18201	13	27.9	1712	591	70	3104
1993	16137	21239	14.6	27.4	2244	738	110	4051
1994	18304	23517	14.2	28.6	2391	837	123	4435
1995	19895	25414	14.2	28.3	2589	915	106	4738
1996	20914	27203	15.4	27.9	3015	1041	123	5467
1997	19734	25033	15.1	26.5	2781	888	113	4896
1998	18619	23551	16.6	28	2812	978	113	5109
1999	18532	22737	17.7	27	2945	1013	74	5193
2000	18196	22722	18.3	26	3085	1002	81	5333
2001	17953	22341	18.7	25.4	3118	1008	53	5294
2002	17816	22478	19.7	25.6	3288	1096	33	5579
2003	17515	21888	20.3	24.1	3371	1043	25	5532
2004	18463	23287	19.3	22.9	3464	1015	15	5539
2005	19166	23771						
2006	18183	22343						

3). Live birth and multiple birth rates for micromanipulation (ICSI & SUZI) treatment cycles

Table 3 provides the number of micromanipulation only cycles together with their live birth outcomes. It includes cycles using the patients own eggs or donated eggs. Frozen embryo transfers are included.

In this table, micromanipulation data does not include cycles involving IVF.

Table 3

Micromanipulation								
Year	**Number of micro-manipulation patients**	**Number of micro-manipulation treatment cycles**	**Micro-manipulation live birth rate**	**Multiple micro-manipulation live birth rate**	**Micromanipulation singleton births**	**Micro-manipulation twin births**	**Micro-manipulation triplet and higher order births**	**Total live micro-manipulation babies**
1991	32	33	++	++	1	0	0	1
1992	120	128	6.3	++	5	3	0	11
1993	504	578	9.9	19.3	46	5	6	74
1994	1120	1284	15.6	23.5	153	42	5	252
1995	3351	3822	20.7	29.3	559	202	30	1053
1996	5392	6175	20.8	28.3	923	330	34	1686
1997	7680	8917	20.8	28.8	1317	488	46	2431
1998	9656	11906	20.6	26.4	1802	594	52	3146
1999	10198	12077	21.8	25.6	1960	622	52	3361
2000	10468	12728	21.4	26.3	2006	669	46	3482
2001	11404	13861	21.7	25.4	2246	730	33	3805
2002	12077	14922	22.5	23.3	2574	764	17	4153
2003	12588	15523	23.3	23.2	2782	828	14	4480
2004	13500	16738	22.4	22.6	2900	837	8	4598
2005	14600	17788						
2006	16363	19991						

4). Live birth and multiple birth rates for all IVF & micromanipulation treatment cycles

Table 4 provides the combined number of IVF + (ICSI & SUZI) treatment cycles together with their live birth outcomes. It includes cycles using the patients own eggs or donated eggs. Frozen embryo transfers are included.

Note: Totals given here may be slightly greater than the sum of Table 2 and Table 3 as some cycles involved the transfer of both IVF and ICSI created embryos which could therefore not be included in Table 2 (IVF only cycles) or Table 3 (micromanipulation only cycles) .

Table 4

COMBINED Micromanipulation & IVF								
Year	**Total number of patients**	**Total number of treatment cycles**	**IVF live birth rate**	**Multiple IVF live birth rate**	**Total singleton births**	**Total twin births**	**Total triplet & higher order births**	**Total live babies**
1991	6184	6650	14	28.5	665	233	32	1227
1992	14061	18338	13	27.9	1717	594	70	3115
1993	16566	21867	14.4	27.3	2290	743	116	4125
1994	19296	24867	14.3	28.4	2544	879	128	4687
1995	22648	29326	15	28.5	3148	1117	136	5791
1996	25353	33462	16.3	28	3938	1371	157	7153
1997	26283	33998	16.6	27.3	4098	1376	159	7327
1998	27225	35478	17.9	27.4	4614	1572	165	8255
1999	27776	34844	19.1	26.4	4906	1636	126	8557
2000	27545	35509	19.4	26.1	5097	1672	127	8823
2001	28314	36292	19.8	25.4	5374	1742	86	9117
2002	28980	37507	20.8	24.6	5876	1867	51	9763
2003	29339	37570	21.6	23.7	6186	1886	39	10075
2004	30861	40164	20.6	22.7	6398	1859	23	10185
2005	32558	41732						
2006	33713	42537						

5). Live birth and multiple birth rates for Donor Insemination (DI) 1991 - 2006

Table 5 provides the number of DI cycles together with their live birth outcomes.

The DI data in the table below **includes** GIFT using donor gametes.

Table 5

DI								
Year	**Number of DI patients**	**Number of DI treatment cycles**	**DI live birth rate**	**Multiple DI live birth rate**	**DI singleton births**	**DI twin births**	**DI triplet and higher order births**	**Total live DI babies**
1991	4301	9303	5.2	6.4	455	30	1	518
1992	7642	26078	5.2	6.9	1263	86	7	1457
1993	7634	24230	6.4	8.3	1430	115	14	1702
1994	7257	21484	8	7.1	1594	104	17	1854
1995	6296	18001	8.8	8.7	1446	118	19	1740
1996	5583	14913	9.7	7.2	1346	95	9	1565
1997	5106	13305	9.6	7	1185	82	7	1370
1998	4496	11579	10	6.6	1083	73	4	1242
1999	4224	10207	10.7	7	1014	72	4	1170
2000	3575	8354	10.4	5.2	823	40	5	919
2001	3181	7580	10.5	5.5	752	42	2	842
2002	3143	7323	11.2	7	765	53	5	886
2003	3113	7322	10.7	5.1	740	38	2	822
2004	2953	6893	10.3	5.6	668	37	3	751
2005	2634	5849						
2006	2075	4071						

6). IVF only Live Birth Rates by age of patient using their own eggs

Table 6 provides the number of treatment cycles together with their live births and live birth rate for all ages (patients under 25 have been aggregated since there are relatively few of them). Table 6a is for patients aged 39 or under. Table 6b is for patients aged 40 and over. Both tables include fresh stimulated and natural cycles and frozen embryo replacements.

Table 6a

Year	IVF using own eggs - excluding micromanipulation	Under 25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
1991	**Treatment cycles**	102	87	159	213	315	347	454	480	505	518	583	530	417	422	387	330
1991	**Live births**	12	12	19	34	61	62	85	77	91	78	103	69	47	50	41	33
1991	**Live birth rate**	11.8	13.8	11.9	16	19.4	17.9	18.7	16	18	15.1	17.7	13	11.3	11.8	10.6	10
1992	**Treatment cycles**	224	234	351	524	767	977	1204	1265	1500	1537	1480	1368	1327	1118	1070	851
1992	**Live births**	32	48	55	98	105	177	191	198	240	221	192	169	160	132	113	76
1992	**Live birth rate**	14.3	20.5	15.7	18.7	13.7	18.1	15.9	15.7	16	14.4	13	12.4	12.1	11.8	10.6	8.9
1993	**Treatment cycles**	278	232	392	571	822	1137	1425	1496	1699	1781	1707	1816	1528	1347	1130	991
1993	**Live births**	48	46	64	112	147	178	229	252	267	278	269	265	222	184	139	102
1993	**Live birth rate**	17.3	19.8	16.3	19.6	17.9	15.7	16.1	16.8	15.7	15.6	15.8	14.6	14.5	13.7	12.3	10.3
1994	**Treatment cycles**	303	273	462	668	881	1224	1511	1683	1794	1918	1859	1820	1723	1483	1346	1083
1994	**Live births**	50	44	71	130	151	214	257	278	284	326	284	272	238	165	134	114
1994	**Live birth rate**	16.5	16.1	15.4	19.5	17.1	17.5	17	16.5	15.8	17	15.3	14.9	13.8	11.1	10	10.5
1995	**Treatment cycles**	365	305	461	757	933	1261	1604	1890	1958	1995	2129	1968	1815	1723	1400	1163
1995	**Live births**	51	55	81	140	182	189	276	317	340	322	313	296	235	201	144	112
1995	**Live birth rate**	14	18	17.6	18.5	19.5	15	17.2	16.8	17.4	16.1	14.7	15	12.9	11.7	10.3	9.6
1996	**Treatment cycles**	364	338	496	799	1009	1334	1566	2016	2101	2197	2326	2132	1874	1722	1582	1240
1996	**Live births**	54	63	84	124	195	287	294	358	374	374	397	310	267	245	182	128
1996	**Live birth rate**	14.8	18.6	16.9	15.5	19.3	21.5	18.8	17.8	17.8	17	17.1	14.5	14.2	14.2	11.5	10.3

A long term analysis of the HFEA Register data (1991-2006)

Year	IVF using own eggs - excluding micromanipulation	Under 25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
1997	**Treatment cycles**	297	263	455	666	913	1098	1439	1681	1898	2063	2015	2065	1852	1533	1395	1215
1997	**Live births**	54	53	89	96	149	185	247	329	367	358	357	324	259	208	165	109
1997	**Live birth rate**	18.2	20.2	19.6	14.4	16.3	16.8	17.2	19.6	19.3	17.4	17.7	15.7	14	13.6	11.8	9
1998	**Treatment cycles**	285	226	377	607	845	1036	1333	1621	1656	1765	1950	1864	1755	1675	1380	1205
1998	**Live births**	37	32	73	122	157	192	251	301	331	359	404	320	301	244	194	134
1998	**Live birth rate**	13	14.2	19.4	20.1	18.6	18.5	18.8	18.6	20	20.3	20.7	17.2	17.2	14.6	14.1	11.1
1999	**Treatment cycles**	244	210	314	460	687	878	1177	1426	1647	1710	1819	1823	1633	1528	1336	1136
1999	**Live births**	46	36	69	99	146	193	233	312	341	354	337	365	298	256	212	132
1999	**Live birth rate**	18.9	17.1	22	21.5	21.3	22	19.8	21.9	20.7	20.7	18.5	20	18.2	16.8	15.9	11.6
2000	**Treatment cycles**	243	186	298	403	643	840	1082	1392	1594	1759	1767	1794	1681	1606	1303	1130
2000	**Live births**	68	32	67	90	142	180	250	317	323	377	368	364	349	249	204	139
2000	**Live birth rate**	28	17.2	22.5	22.3	22.1	21.4	23.1	22.8	20.3	21.4	20.8	20.3	20.8	15.5	15.7	12.3
2001	**Treatment cycles**	234	186	247	431	625	834	1095	1239	1468	1597	1703	1741	1709	1575	1431	1102
2001	**Live births**	49	36	63	88	121	186	249	281	346	362	378	345	325	289	211	150
2001	**Live birth rate**	20.9	19.4	25.5	20.4	19.4	22.3	22.7	22.7	23.6	22.7	22.2	19.8	19	18.3	14.7	13.6
2002	**Treatment cycles**	247	174	269	390	588	803	1023	1270	1452	1653	1795	1866	1673	1694	1501	1298
2002	**Live births**	50	32	64	87	141	182	248	316	345	366	392	433	314	286	272	197
2002	**Live birth rate**	20.2	18.4	23.8	22.3	24	22.7	24.2	24.9	23.8	22.1	21.8	23.2	18.8	16.9	18.1	15.2
2003	**Treatment cycles**	270	182	240	348	539	702	917	1175	1349	1575	1811	1772	1736	1782	1601	1392
2003	**Live births**	56	38	67	88	128	183	246	308	331	357	441	387	371	329	273	208
2003	**Live birth rate**	20.7	20.9	27.9	25.3	23.7	26.1	26.8	26.2	24.5	22.7	24.4	21.8	21.4	18.5	17.1	14.9
2004	**Treatment cycles**	258	227	258	346	572	693	953	1231	1380	1580	1781	1979	1856	1760	1683	1649
2004	**Live births**	55	53	52	94	133	183	242	279	348	390	394	372	383	322	281	237
2004	**Live birth rate**	21.3	23.3	20.2	27.2	23.3	26.4	25.4	22.7	25.2	24.7	22.1	18.8	20.6	18.3	16.7	14.4

Year	IVF using own eggs - excluding micromanipulation	Under 25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
2005	**Treatment cycles**	225	175	281	359	518	653	910	1047	1366	1555	1778	1958	1956	1795	1710	1647
2006	**Treatment cycles**	271	161	251	335	447	563	712	994	1163	1425	1595	1765	1863	1830	1709	1627

Table 6b is for patients aged 40 and over. As above, this table includes fresh stimulated and natural cycles and frozen embryo replacements.

Table 6b

Year	40	41	42	43	44	45	46	47	48	49	50	Over 50	Unknown	All patients
1991	209	153	114	54	44	19	9	2	1	2	0	1	0	6457
1991	16	8	3	1	0	1	0	0	0	0	0	0	0	903
1991	7.7	5.2	2.6	1.9	++	++	++	++	++	++	0	++	0	14
1992	659	478	277	188	141	63	30	9	4	2	0	2	0	17650
1992	31	14	7	7	3	2	0	0	0	0	0	0	0	2271
1992	4.7	2.9	2.5	3.7	2.1	3.2	++	++	++	++	0	++	0	12.9
1993	677	523	348	229	154	75	34	13	3	4	0	3	0	20415
1993	61	34	19	10	3	2	1	0	0	0	0	0	0	2932
1993	9	6.5	5.5	4.4	1.9	2.7	++	++	++	++	0	++	0	14.4
1994	757	559	389	254	156	74	51	24	4	4	4	1	1	22309
1994	59	28	21	4	5	0	1	0	0	0	0	0	1	3131
1994	7.8	5	5.4	1.6	3.2	0	2	++	++	++	++	++	++	14
1995	851	578	395	276	175	81	49	17	15	5	6	4	4	24183
1995	66	34	11	11	6	1	0	2	0	0	0	0	1	3386
1995	7.8	5.9	2.8	4	3.4	1.2	++	++	++	++	++	++	++	14

Year	40	41	42	43	44	45	46	47	48	49	50	Over 50	Unknown	All patients
1996	927	590	437	279	187	98	61	19	10	5	1	6	1	25717
1996	92	32	17	11	2	2	0	0	0	0	0	0	0	3892
1996	9.9	5.4	3.9	3.9	1.1	2	0	++	++	++	++	++	++	15.1
1997	959	592	425	313	169	104	45	28	11	7	2	2	5	23510
1997	74	41	24	6	0	1	0	0	0	0	0	0	0	3495
1997	7.7	6.9	5.6	1.9	0	1	++	++	++	++	++	++	++	14.9
1998	858	627	415	234	158	103	55	24	9	10	3	2	16	22094
1998	76	45	22	7	4	0	0	0	0	0	0	0	0	3606
1998	8.9	7.2	5.3	3	2.5	0	0	++	++	++	++	++	++	16.3
1999	816	610	408	246	139	84	48	26	7	4	4	4	697	21121
1999	86	59	18	12	3	2	1	1	0	0	0	0	97	3708
1999	10.5	9.7	4.4	4.9	2.2	2.4	++	++	++	++	++	++	13.9	17.6
2000	817	647	420	275	160	87	46	23	18	5	3	3	820	21045
2000	79	48	20	8	5	1	1	1	0	0	0	0	111	3793
2000	9.7	7.4	4.8	2.9	3.1	1.1	++	++	++	++	++	++	13.5	18
2001	872	674	461	299	175	90	40	20	7	4	2	5	852	20718
2001	90	58	34	16	6	4	0	0	1	0	0	0	128	3816
2001	10.3	8.6	7.4	5.4	3.4	4.4	++	++	++	++	++	++	15	18.4
2002	1018	722	501	321	231	88	43	27	8	8	3	4	255	20925
2002	118	70	37	10	8	3	0	1	0	0	0	0	56	4028
2002	11.6	9.7	7.4	3.1	3.5	3.4	++	++	++	++	++	++	22	19.2
2003	986	745	529	337	223	93	44	21	13	4	3	3	70	20462
2003	118	66	31	13	5	1	1	0	0	0	0	0	24	4070
2003	12	8.9	5.9	3.9	2.2	1.1	++	++	++	++	++	++	34.3	19.9

A long term analysis of the HFEA Register data (1991-2006)

Year	40	41	42	43	44	45	46	47	48	49	50	Over 50	Unknown	All patients
2004	1187	888	648	405	258	117	55	16	9	4	2	3	20	21818
2004	149	93	45	20	5	4	0	1	0	0	0	0	5	4140
2004	12.6	10.5	6.9	4.9	1.9	3.4	0	++	++	++	++	++	++	19
2005	1308	992	676	424	226	104	38	17	8	4	6	10	609	22355
2006	1305	930	627	418	197	104	44	17	7	6	3	8	877	21254

7). Micromanipulation (ICSI & SUZI) Live Birth Rates by age of patient using their own eggs

Table 7 provides the number of treatment cycles together with their live births and live birth rate for all ages (patients under 25 have been aggregated since there are relatively few of them). Table 7a is for patients aged 39 or under. Table 7b is for patients aged 40 and over. Both tables include fresh stimulated and natural cycles and frozen embryo replacements.

Table 7a

Year	Micromanipulation using own eggs	Under 25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
1991	Treatment cycles	0	0	0	2	5	2	5	2	1	3	5	2	0	1	2	1
1991	Live births	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
1991	Live birth rate	0	0	0	++	++	++	++	++	++	++	++	0	0	++	++	++
1992	Treatment cycles	1	1	3	5	6	7	13	8	9	10	15	5	7	11	9	8
1992	Live births	0	0	0	0	1	1	2	1	0	0	0	1	1	0	1	0
1992	Live birth rate	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++
1993	Treatment cycles	22	12	18	18	39	30	31	57	28	57	44	51	42	26	31	18
1993	Live births	4	0	2	1	7	3	5	13	4	8	4	0	2	0	2	0
1993	Live birth rate	++	++	++	++	++	++	++	22.8	++	14	++	0	++	++	++	++
1994	Treatment cycles	27	25	25	36	74	80	82	88	101	113	102	103	85	64	83	69
1994	Live births	7	3	6	7	16	16	10	14	20	19	16	23	12	9	4	8
1994	Live birth rate	++	++	++	++	21.6	20	12.2	15.9	19.8	16.8	15.7	22.3	14.1	14.1	4.8	11.6
1995	Treatment cycles	85	57	81	129	180	225	270	278	311	328	350	319	241	223	210	171
1995	Live births	20	14	22	38	45	65	65	64	76	76	72	59	49	36	29	24
1995	Live birth rate	23.5	24.6	27.2	29.5	25	28.9	24.1	23	24.4	23.2	20.6	18.5	20.3	16.1	13.8	14
1996	Treatment cycles	131	86	145	181	230	328	470	486	523	535	528	498	458	389	292	253
1996	Live births	33	24	33	49	62	79	123	113	127	122	110	95	84	70	52	33
1996	Live birth rate	25.2	27.9	22.8	27.1	27	24.1	26.2	23.3	24.3	22.8	20.8	19.1	18.3	18	17.8	13

A long term analysis of the HFEA Register data (1991-2006)

Year	Micromanipulation using own eggs	Under 25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
1997	**Treatment cycles**	165	113	179	293	403	477	570	705	748	818	754	683	634	519	467	355
1997	**Live births**	44	28	43	77	101	118	150	168	165	177	174	167	136	78	63	38
1997	**Live birth rate**	26.7	24.8	24	26.3	25.1	24.7	26.3	23.8	22.1	21.6	23.1	24.5	21.5	15	13.5	10.7
1998	**Treatment cycles**	222	127	251	375	506	657	781	839	995	1055	1033	978	829	757	588	539
1998	**Live births**	56	29	56	91	122	169	186	206	238	246	228	208	173	140	90	59
1998	**Live birth rate**	25.2	22.8	22.3	24.3	24.1	25.7	23.8	24.6	23.9	23.3	22.1	21.3	20.9	18.5	15.3	10.9
1999	**Treatment cycles**	213	140	227	308	420	647	705	858	909	980	1004	983	841	738	604	547
1999	**Live births**	59	44	64	83	93	198	201	230	242	225	224	226	174	146	96	77
1999	**Live birth rate**	27.7	31.4	28.2	26.9	22.1	30.6	28.5	26.8	26.6	23	22.3	23	20.7	19.8	15.9	14.1
2000	**Treatment cycles**	238	121	219	314	450	532	720	830	915	935	1080	1056	981	818	701	557
2000	**Live births**	68	33	53	93	115	121	199	212	242	224	255	263	195	151	124	64
2000	**Live birth rate**	28.6	27.3	24.2	29.6	25.6	22.7	27.6	25.5	26.4	24	23.6	24.9	19.9	18.5	17.7	11.5
2001	**Treatment cycles**	232	163	220	360	441	623	776	881	1003	1075	1102	1100	1046	897	815	620
2001	**Live births**	67	40	55	98	127	176	223	219	286	271	265	238	219	173	146	94
2001	**Live birth rate**	28.9	24.5	25	27.2	28.8	28.3	28.7	24.9	28.5	25.2	24	21.6	20.9	19.3	17.9	15.2
2002	**Treatment cycles**	266	163	240	339	488	632	858	970	1055	1159	1239	1281	1198	1036	922	714
2002	**Live births**	66	50	62	100	140	144	242	272	301	302	308	345	237	216	175	116
2002	**Live birth rate**	24.8	30.7	25.8	29.5	28.7	22.8	28.2	28	28.5	26.1	24.9	26.9	19.8	20.8	19	16.2
2003	**Treatment cycles**	296	159	267	351	460	665	824	972	1148	1162	1285	1337	1185	1124	1066	881
2003	**Live births**	86	55	95	87	124	178	239	287	319	332	341	334	260	216	219	129
2003	**Live birth rate**	29.1	34.6	35.6	24.8	27	26.8	29	29.5	27.8	28.6	26.5	25	21.9	19.2	20.5	14.6
2004	**Treatment cycles**	347	213	275	385	453	637	795	995	1117	1343	1296	1354	1341	1216	1143	987
2004	**Live births**	93	56	77	110	130	182	208	271	358	365	347	302	276	258	208	169
2004	**Live birth rate**	26.8	26.3	28	28.6	28.7	28.6	26.2	27.2	32.1	27.2	26.8	22.3	20.6	21.2	18.2	17.1

Year	Micromanipulation using own eggs	Under 25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
2005	**Treatment cycles**	342	219	271	404	473	577	825	1025	1130	1286	1430	1389	1421	1191	1131	1114
2006	**Treatment cycles**	355	256	341	418	543	621	798	964	1124	1358	1500	1604	1539	1508	1406	1259

Table 7b is for patients aged 40 and over. As above, this table includes fresh stimulated and natural cycles and frozen embryo replacements.

Table 7b

Year	40	41	42	43	44	45	46	47	48	49	50	Over 50	Unknown	All patients
1991	0	0	1	1	0	0	0	0	0	0	0	0	0	33
1991	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1991	0	0	++	++	0	0	0	0	0	0	0	0	0	++
1992	3	3	2	1	0	0	0	0	0	0	0	0	0	127
1992	0	0	0	0	0	0	0	0	0	0	0	0	0	8
1992	++	++	++	++	0	0	0	0	0	0	0	0	0	6.3
1993	16	11	7	6	3	3	0	0	1	1	0	0	0	572
1993	1	0	0	0	0	0	0	0	0	0	0	0	0	56
1993	++	++	++	++	++	++	0	0	++	++	0	0	0	9.8
1994	45	27	7	8	9	3	0	2	1	0	1	0	0	1260
1994	4	0	0	0	0	0	0	0	0	0	0	0	0	194
1994	++	++	++	++	++	++	0	++	++	0	++	0	0	15.4
1995	118	83	38	22	13	5	1	1	1	0	0	0	0	3740
1995	10	6	2	0	0	0	0	0	0	0	0	0	0	772
1995	8.5	7.2	++	++	++	++	++	++	++	0	0	0	0	20.6

A long term analysis of the HFEA Register data (1991-2006)

Year	40	41	42	43	44	45	46	47	48	49	50	Over 50	Unknown	All patients
1996	186	131	89	40	25	12	4	3	4	0	0	0	0	6027
1996	20	9	8	1	1	0	0	0	0	0	0	0	0	1248
1996	10.8	6.9	9	++	++	++	++	++	++	0	0	0	0	20.7
1997	259	191	124	88	51	22	11	2	4	1	0	1	0	8637
1997	33	15	5	4	0	0	0	0	0	0	0	0	0	1784
1997	12.7	7.9	4	4.5	0	++	++	++	++	++	0	++	0	20.7
1998	341	242	124	118	50	20	7	5	2	2	0	0	12	11455
1998	32	17	5	3	1	0	0	1	0	0	0	0	2	2358
1998	9.4	7	4	2.5	2	++	++	++	++	++	0	0	++	20.6
1999	390	251	162	100	58	29	7	6	5	0	1	0	386	11519
1999	54	20	8	4	3	0	0	0	0	0	0	0	47	2518
1999	13.8	8	4.9	4	5.2	++	++	++	++	0	++	0	12.2	21.9
2000	419	284	215	135	66	24	13	11	5	3	2	1	422	12067
2000	58	17	21	7	1	0	0	0	0	0	0	0	69	2585
2000	13.8	6	9.8	5.2	1.5	++	++	++	++	++	++	++	16.4	21.4
2001	453	359	215	123	89	35	18	8	5	2	3	2	552	13218
2001	57	31	11	5	2	1	0	0	0	0	0	0	73	2877
2001	12.6	8.6	5.1	4.1	2.2	++	++	++	++	++	++	++	13.2	21.8
2002	553	402	261	177	90	56	25	3	2	2	4	1	154	14290
2002	67	33	20	7	3	0	0	0	0	0	0	0	24	3230
2002	12.1	8.2	7.7	4	3.3	0	++	++	++	++	++	++	15.6	22.6
2003	626	450	257	169	88	43	21	12	2	1	0	1	50	14902
2003	75	55	18	12	3	0	0	0	0	1	0	0	25	3490
2003	12	12.2	7	7.1	3.4	++	++	++	++	++	0	++	50	23.4

A long term analysis of the HFEA Register data (1991-2006)

Year	40	41	42	43	44	45	46	47	48	49	50	Over 50	Unknown	All patients
2004	756	557	387	197	132	47	23	9	6	1	1	3	41	16057
2004	79	60	32	8	5	3	0	0	0	0	0	0	5	3602
2004	10.4	10.8	8.3	4.1	3.8	++	++	++	++	++	++	++	++	22.4
2005	799	605	387	245	121	65	28	14	9	3	0	4	580	17088
2006	1005	692	461	268	161	70	26	11	4	2	0	1	944	19239

8). Live Birth Rates for all IVF & micromanipulation by age of patient using their own eggs

Table 8 provides the total number of treatment cycles for IVF and micromanipulation together with their live births and live birth rate for all ages (under 25 have been aggregated since there are relatively few of them). Table 8a is for patients aged 39 or under. Table 8b is for patients aged 40 and over. Both tables include fresh stimulated and natural cycles and frozen embryo replacements.

To date, there have been relatively few treatment cycles involving frozen/thawed eggs. Out of 77 egg thaws reported, 37 provided eggs which were mixed with sperm, and from these 3 live birth events produced 4 children.

Note: The total number of cycles and live births may be greater than the sum of the figures in table 6 and 7 for each year and age category as some cycles in table 8 involved the transfer of both IVF and micromanipulation created embryos which could therefore not be included in Table 6 (IVF only cycles) or Table 7 (micromanipulation e.g. ICSI & SUZI only cycles).

Table 8a

Year	All cycles using own eggs	Under 25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
1991	Treatment cycles	102	87	161	216	320	349	459	483	507	522	588	532	417	423	390	331
1991	Live births	12	12	19	34	61	62	85	77	91	79	103	69	47	50	41	33
1991	Live birth rate	11.8	13.8	11.8	15.7	19.1	17.8	18.5	15.9	17.9	15.1	17.5	13	11.3	11.8	10.5	10
1992	Treatment cycles	225	236	354	529	775	984	1217	1273	1509	1547	1498	1373	1335	1129	1080	859
1992	Live births	32	48	55	98	106	178	193	199	240	221	192	170	161	132	114	76
1992	Live birth rate	14.2	20.3	15.5	18.5	13.7	18.1	15.9	15.6	15.9	14.3	12.8	12.4	12.1	11.7	10.6	8.8
1993	Treatment cycles	301	246	412	591	863	1172	1465	1554	1729	1841	1757	1869	1573	1376	1161	1011
1993	Live births	52	46	66	113	154	181	234	265	271	286	273	265	224	184	141	102
1993	Live birth rate	17.3	18.7	16	19.1	17.8	15.4	16	17.1	15.7	15.5	15.5	14.2	14.2	13.4	12.1	10.1
1994	Treatment cycles	332	299	488	706	957	1312	1600	1779	1898	2035	1964	1928	1814	1553	1433	1154
1994	Live births	57	47	77	137	167	230	267	292	304	345	300	295	250	174	138	122
1994	Live birth rate	17.2	15.7	15.8	19.4	17.5	17.5	16.7	16.4	16	17	15.3	15.3	13.8	11.2	9.6	10.6

Year	All cycles using own eggs	Under 25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
1995	**Treatment cycles**	453	366	543	889	1121	1490	1879	2175	2277	2337	2487	2292	2059	1949	1614	1339
1995	**Live births**	71	69	103	178	227	254	341	381	416	398	385	355	284	237	173	136
1995	**Live birth rate**	15.7	18.9	19	20	20.2	17	18.1	17.5	18.3	17	15.5	15.5	13.8	12.2	10.7	10.2
1996	**Treatment cycles**	496	425	641	985	1242	1667	2039	2510	2633	2739	2864	2633	2338	2121	1877	1496
1996	**Live births**	87	87	117	173	257	366	417	471	501	496	507	405	351	315	234	161
1996	**Live birth rate**	17.5	20.5	18.3	17.6	20.7	22	20.5	18.8	19	18.1	17.7	15.4	15	14.9	12.5	10.8
1997	**Treatment cycles**	462	376	637	961	1316	1579	2010	2391	2650	2884	2773	2751	2488	2056	1867	1573
1997	**Live births**	98	81	132	173	250	303	397	497	532	535	531	491	395	286	228	147
1997	**Live birth rate**	21.2	21.5	20.7	18	19	19.2	19.8	20.8	20.1	18.6	19.1	17.8	15.9	13.9	12.2	9.3
1998	**Treatment cycles**	508	354	628	982	1352	1695	2114	2463	2651	2821	2985	2843	2586	2434	1969	1744
1998	**Live births**	93	61	129	213	279	361	437	507	569	605	632	528	474	384	284	193
1998	**Live birth rate**	18.3	17.2	20.5	21.7	20.6	21.3	20.7	20.6	21.5	21.4	21.2	18.6	18.3	15.8	14.4	11.1
1999	**Treatment cycles**	459	350	541	769	1107	1527	1884	2286	2557	2694	2825	2808	2476	2268	1941	1684
1999	**Live births**	105	80	133	182	239	391	434	542	583	581	561	591	472	402	308	209
1999	**Live birth rate**	22.9	22.9	24.6	23.7	21.6	25.6	23	23.7	22.8	21.6	19.9	21	19.1	17.7	15.9	12.4
2000	**Treatment cycles**	483	307	517	717	1096	1375	1806	2227	2511	2701	2854	2858	2666	2427	2006	1690
2000	**Live births**	136	65	120	183	257	301	449	530	566	601	625	628	544	400	329	204
2000	**Live birth rate**	28.2	21.2	23.2	25.5	23.4	21.9	24.9	23.8	22.5	22.3	21.9	22	20.4	16.5	16.4	12.1
2001	**Treatment cycles**	469	350	469	793	1066	1463	1876	2125	2478	2675	2812	2851	2764	2477	2252	1728
2001	**Live births**	116	77	119	187	248	363	472	501	633	633	643	585	547	462	357	245
2001	**Live birth rate**	24.7	22	25.4	23.6	23.3	24.8	25.2	23.6	25.5	23.7	22.9	20.5	19.8	18.7	15.9	14.2
2002	**Treatment cycles**	517	337	512	731	1079	1438	1884	2249	2515	2821	3045	3157	2882	2735	2430	2017
2002	**Live births**	117	82	126	187	281	327	492	589	647	671	704	780	554	503	448	313
2002	**Live birth rate**	22.6	24.3	24.6	25.6	26	22.7	26.1	26.2	25.7	23.8	23.1	24.7	19.2	18.4	18.4	15.5

Year	All cycles using own eggs	Under 25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
2003	**Treatment cycles**	569	341	510	702	1002	1371	1753	2160	2506	2744	3114	3129	2932	2911	2682	2280
2003	**Live births**	143	93	162	175	254	363	487	601	655	692	790	728	635	546	496	338
2003	**Live birth rate**	25.1	27.3	31.8	24.9	25.3	26.5	27.8	27.8	26.1	25.2	25.4	23.3	21.7	18.8	18.5	14.8
2004	**Treatment cycles**	607	441	533	735	1026	1336	1753	2230	2513	2933	3087	3346	3211	2990	2834	2647
2004	**Live births**	148	109	129	205	263	366	452	551	715	760	746	678	663	585	491	407
2004	**Live birth rate**	24.4	24.7	24.2	27.9	25.6	27.4	25.8	24.7	28.5	25.9	24.2	20.3	20.6	19.6	17.3	15.4
2005	**Treatment cycles**	570	397	553	764	993	1235	1747	2082	2509	2852	3220	3357	3393	2996	2856	2770
2006	**Treatment cycles**	614	628	419	594	756	993	1190	1518	1969	2300	2793	3105	3388	3421	3356	3133

Table 8b is for patients aged 40 and over. As above, this table includes fresh stimulated and natural cycles and frozen embryo replacements.

Table 8b

Year	40	41	42	43	44	45	46	47	48	49	50	Over 50	Unknown	All patients
1991	210	153	115	55	44	19	9	2	1	2	0	1	0	6498
1991	16	8	3	1	0	1	0	0	0	0	0	0	0	904
1991	7.6	5.2	2.6	1.8	++	++	++	++	++	++	0	++	0	13.9
1992	662	482	279	189	141	63	30	9	4	2	0	2	0	17786
1992	31	14	7	7	3	2	0	0	0	0	0	0	0	2279
1992	4.7	2.9	2.5	3.7	2.1	3.2	++	++	++	++	0	++	0	12.8
1993	696	534	357	235	157	78	34	13	4	5	0	3	0	21037
1993	62	34	19	10	3	2	1	0	0	0	0	0	0	2988
1993	8.9	6.4	5.3	4.3	1.9	2.6	++	++	++	++	0	++	0	14.2

Year	40	41	42	43	44	45	46	47	48	49	50	Over 50	Unknown	All patients
1994	803	587	396	262	165	77	51	26	5	4	5	1	1	23635
1994	63	28	21	4	5	0	1	0	0	0	0	0	1	3325
1994	7.8	4.8	5.3	1.5	3	0	2	++	++	++	++	++	++	14.1
1995	971	662	433	298	190	86	50	18	16	5	6	4	4	28013
1995	76	40	13	11	6	1	0	2	0	0	0	0	1	4158
1995	7.8	6	3	3.7	3.2	1.2	0	++	++	++	++	++	++	14.8
1996	1115	723	526	319	212	110	65	22	14	5	1	6	1	31825
1996	112	41	25	12	3	2	0	0	0	0	0	0	0	5140
1996	10	5.7	4.8	3.8	1.4	1.8	0	++	++	++	++	++	++	16.2
1997	1218	784	552	401	220	126	56	30	15	8	2	3	5	32194
1997	107	56	29	10	0	1	0	0	0	0	0	0	0	5279
1997	8.8	7.1	5.3	2.5	0	0.8	0	++	++	++	++	++	++	16.4
1998	1199	870	539	353	208	123	62	29	11	12	3	2	28	33568
1998	108	62	27	10	5	0	0	1	0	0	0	0	2	5964
1998	9	7.1	5	2.8	2.4	0	0	++	++	++	++	++	++	17.8
1999	1210	861	571	347	197	113	55	32	12	4	5	4	1083	32670
1999	140	79	26	16	6	2	1	1	0	0	0	0	144	6228
1999	11.6	9.2	4.6	4.6	3	1.8	1.8	++	++	++	++	++	13.3	19.1
2000	1236	932	635	410	226	111	59	34	23	8	5	4	1243	33167
2000	137	65	41	15	6	1	1	1	0	0	0	0	180	6385
2000	11.1	7	6.5	3.7	2.7	0.9	1.7	++	++	++	++	++	14.5	19.3
2001	1329	1035	677	422	264	125	58	28	12	6	5	7	1407	34023
2001	148	89	45	21	8	5	0	0	1	0	0	0	201	6706
2001	11.1	8.6	6.6	5	3	4	0	++	++	++	++	++	14.3	19.7

A long term analysis of the HFEA Register data (1991-2006)

Year	40	41	42	43	44	45	46	47	48	49	50	Over 50	Unknown	All patients
2002	1575	1128	763	500	321	145	68	30	10	10	7	5	409	35320
2002	186	103	57	17	11	3	0	1	0	0	0	0	80	7279
2002	11.8	9.1	7.5	3.4	3.4	2.1	0	++	++	++	++	++	19.6	20.6
2003	1618	1199	789	511	312	136	65	33	15	5	3	4	120	35516
2003	194	121	49	25	8	1	1	0	0	1	0	0	49	7607
2003	12	10.1	6.2	4.9	2.6	0.7	1.5	++	++	++	++	++	40.8	21.4
2004	1954	1448	1036	602	391	164	78	26	15	5	3	6	62	38012
2004	229	153	77	28	10	7	0	1	0	0	0	0	10	7783
2004	11.7	10.6	7.4	4.7	2.6	4.3	0	++	++	++	++	++	16.1	20.5
2005	2120	1601	1067	674	347	169	66	31	17	7	6	14	1198	39611
2006	2314	1627	1090	686	360	174	70	28	11	8	3	9	1852	40694

9). Live Birth Rates for all IVF & ICSI treatment cycles by age of patient using fresh embryos (created from their own stimulated treatments to collect fresh eggs) 1991 - 2005

Table 9 provides the number of treatment cycles together with their live births and live birth rate for all ages (Patients under 25 have been aggregated since there are relatively few of them. Table 9a is for patients aged 39 or under. Table 9b is for patients aged 40 and over.

This data does not include PGD cycles or mixed GIFT/IVF cycles. These are cycles where at least one embryo is transferred together with an egg & sperm mixture in GIFT at the same time.

Table 9a

Year	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**	**1991**
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0	0.1	0.2	0.5	0.7	1.4	2.4	3.3	4.9	5.5	6.7	7.4	7.5	8.3	9.2	8.4	6.4	6.6	6	5.3
IVF LBR (%)	++	++	++	++	++	++	++	14.5	12	16.4	18.7	18.1	19.6	17.1	19.6	15.3	17.3	12.9	11.6	12.2	10.3	10

Year	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**	**1992**
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0.1	0.1	0.2	0.3	0.6	1.3	2.1	3	4.4	5.4	6.8	7.1	8.5	8.7	8.4	7.6	7.4	6.4	6.1	4.9
IVF LBR (%)	++	++	++	++			24.7	21.7	16.2	19.9	15	18.9	16.1	16.3	16	15.1	13.6	12.8	12.9	12.3	11	9

Year	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**	**1993**
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0	0	0.2	0.4	0.8	1.2	2	2.8	4.2	5.5	6.8	7.5	8.2	8.6	8.3	8.7	7.5	6.6	5.6	4.8
IVF LBR (%)	++	++	++	++	++	13.3	17.3	19.1	16.8	20.4	18.6	16.4	16.6	18	16.4	16.2	16.1	15.5	15.4	13.8	12.2	10

Year	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**	**1994**
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0	0.1	0.1	0.4	0.7	1.2	2.1	3.2	4.1	5.7	6.7	7.5	7.9	8.7	8.1	8.2	7.6	6.6	6	5.1
IVF LBR (%)	++	++	++	++	++	16.5	19	17.7	17.4	19.6	19.2	18.8	17.6	17.5	17	17.3	16.8	16.3	14.3	11.9	10.3	10.6

Year	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0	0.1	0.2	0.4	0.8	1.3	1.9	3.2	4	5.3	6.6	7.6	8.2	8.3	8.8	8.2	7.4	7	5.9	4.8
IVF LBR (%)	++	++	++	++	16.7	15.3	17.8	21.3	20.4	21.5	21.5	18.1	20	18.6	19.4	18.6	16.4	16.2	14.3	12.3	10.7	10.6

Year	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0	0.1	0.3	0.4	0.7	1.3	2.1	3	3.9	5.2	6.4	7.7	8.3	8.5	9	8.2	7.4	6.9	5.9	4.8
IVF LBR (%)	++	++	++	++	19.4	21.9	20.7	20.7	19	19.3	22	23.4	22.3	20.3	20.7	19.6	19.2	16.8	15.9	15.4	13.2	10.7

Year	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0	0.1	0.2	0.4	0.8	1.3	1.9	3	4	4.7	6.2	7.4	8.2	8.9	8.7	8.6	7.6	6.3	5.9	5
IVF LBR (%)	++	++	++	++	++	23.6	22.3	22.2	22.6	19.4	20.7	20.1	21.7	21.9	21.9	20.1	20.5	19.6	17.2	14.4	13	9.7

Year	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0.1	0.1	0.2	0.4	0.7	1	1.8	2.9	4	5.1	6.2	7.1	8	8.4	8.9	8.4	7.6	7.2	6	5.4
IVF LBR (%)	++	++	++	++	14.9	26	21.7	20.2	21.7	23.4	22.5	22.6	22.5	22.8	23.1	22.6	22.9	20.2	20	17	15	11.5

Year	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0	0.1	0.2	0.4	0.6	1.1	1.8	2.5	3.5	4.9	5.9	7.3	8.2	8.4	8.9	8.9	7.7	7.1	6.1	5.4
IVF LBR (%)	++	++	++	++	27	25	25.2	24.8	27.1	24.2	22.7	27.4	25.5	26.5	24.6	23.8	21.9	22.5	20.4	19.1	16.8	13.6

Year	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0.1	0.1	0.2	0.5	0.6	0.9	1.6	2.3	3.5	4.3	5.7	7.1	7.8	8.4	8.8	9	8.3	7.5	6.3	5.2
IVF LBR (%)	++	++	++	++	26.2	33.1	30.8	24.7	25.5	27.7	25.1	23.5	26.9	26	24.6	24.3	24	23.9	21.7	17.6	17.5	13.2

A long term analysis of the HFEA Register data (1991-2006)

Year	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0	0.2	0.2	0.4	0.7	1.2	1.4	2.5	3.3	4.6	5.8	6.5	7.7	8.1	8.5	8.6	8.4	7.6	6.9	5.4
IVF LBR (%)	++	++	++	++	26.4	27.2	29.9	22.2	28.1	25.7	24.9	26.8	27.5	25.6	28.1	26.1	25	22.7	21.4	20	17.5	14.9

Year	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0.1	0.1	0.3	0.4	0.6	1	1.5	2.2	3	4.2	5.5	6.5	7	8.1	8.7	9.2	8.2	7.8	7	5.7
IVF LBR (%)	++	++	++	++	33.8	17.9	30.5	25.9	27.6	27.3	28.6	25.1	28.4	28.6	29	26.2	25.3	27.5	21.1	19.6	19.8	16.4

Year	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0.1	0.2	0.3	0.5	0.7	1	1.5	2.1	2.8	4	5	6.2	7.3	7.5	8.8	8.8	8.2	8.1	7.5	6.5
IVF LBR (%)	++	++	++	19.6	24	25.4	27.6	29.8	33.6	25.7	27.2	28.5	29.7	30.1	28.1	27.5	27.4	25.3	23.5	19.6	19.9	15.4

Year		2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0.1	0.1	0.3	0.4	0.8	1.2	1.5	2	2.7	3.6	4.6	6	6.7	7.6	8.1	8.8	8.3	7.8	7.4	7
IVF LBR (%)	++	++	++	++	21.1	30.3	26.9	26.1	25.3	29.5	28.5	30.8	27.9	26.9	31	28.4	26	22	22.3	21.1	18.6	16.2

Year	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0.1	0.1	0.2	0.4	0.6	1.1	1.5	2.1	2.6	3.3	4.6	5.4	6.5	7.4	8.4	8.8	8.8	7.8	7.5	7.1

Year	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006
Patient age	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
cycles (% of total for year)	0	0	0	0.1	0.2	0.4	0.7	1.1	1.6	2	2.6	3.2	4	5.1	6	7.3	8	8.7	8.7	8.5	8	7.5

Table 9b is for patients aged 40 and over.

Table 9b

Year	1991	1991	1991	1991	1991	1991	1991	1991	1991	1991
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	3.2	2.4	1.7	0.7	0.7	0.3	0.1	0	0	0
IVF LBR (%)	7.4	5.4	3.2	++	++	++	++	++	++	++

Year	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	3.8	2.6	1.6	1.1	0.8	0.3	0.2	0	0	0
IVF LBR (%)	4.9	2.8	3	3.7	1.7	++	++	++	++	++

Year	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	3.4	2.5	1.7	1.1	0.8	0.3	0.1	0.1	0	0
IVF LBR (%)	9.5	6	6	4	2.2	1.7	++	++	++	++

Year	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	3.5	2.4	1.6	1.1	0.7	0.3	0.2	0.1	0	0
IVF LBR (%)	8.3	4.8	4.9	1.4	3	0	++	++	++	++

Year	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	3.5	2.4	1.6	1.1	0.7	0.3	0.2	0.1	0	0
IVF LBR (%)	7.3	6.1	2.9	3.5	3.2	1.5	++	++	++	++

Year	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	3.6	2.3	1.6	1	0.6	0.3	0.2	0.1	0	0
IVF LBR (%)	10.3	5.8	4.7	4.3	1.8	2.4	0	++	++	++

Year	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	3.8	2.5	1.7	1.2	0.7	0.4	0.2	0.1	0	0
IVF LBR (%)	9.4	7.1	4.8	3	0	0	++	++	++	++

Year	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	3.6	2.7	1.6	1.1	0.6	0.4	0.2	0.1	0	0
IVF LBR (%)	9.8	7.4	3.9	3.2	2.9	0	0	++	++	++

Year	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	3.9	2.8	1.8	1	0.6	0.4	0.1	0.1	0	0
IVF LBR (%)	12	8.9	5	3.4	2.6	1.1	++	++	++	++

Year	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	3.9	3	2	1.3	0.7	0.4	0.2	0.1	0.1	0
IVF LBR (%)	12	6.7	6.1	3.3	2.7	1.1	++	++	++	++

Year	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	4	3.2	2.1	1.3	0.8	0.4	0.1	0.1	0	0
IVF LBR (%)	12	8.4	6.3	5.4	2	2.2	++	++	++	++

Year	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	4.5	3.3	2.2	1.4	0.9	0.4	0.2	0	0	0
IVF LBR (%)	12.5	9.1	7.2	2.8	2.9	0	++	++	++	++

A long term analysis of the HFEA Register data (1991-2006)

Year	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	4.5	3.5	2.2	1.4	0.9	0.4	0.1	0.1	0	0
IVF LBR (%)	12.5	9.7	5.5	4	1.6	0	++	++	++	++

Year	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	5.2	3.8	2.7	1.6	1	0.4	0.2	0.1	0	0
IVF LBR (%)	11.9	10.4	7.4	5	2.9	1.6	0	++	++	++

Year	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	5.5	4.2	2.8	1.6	0.9	0.4	0.2	0.1	0	0

Year	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006
Patient age	40	41	42	43	44	45	46	47	48	49
cycles (% of total for year)	5.9	4.2	2.8	1.8	0.8	0.4	0.2	0	0	0

10). Do success rates for IVF & ICSI differ with patient age?

Figure 10a shows how success rates have improved over the years for all patient ages where a woman uses her own eggs (although the ability to affect outcome rates diminishes with age). It is generated from the data in table 9.

Figure 10a

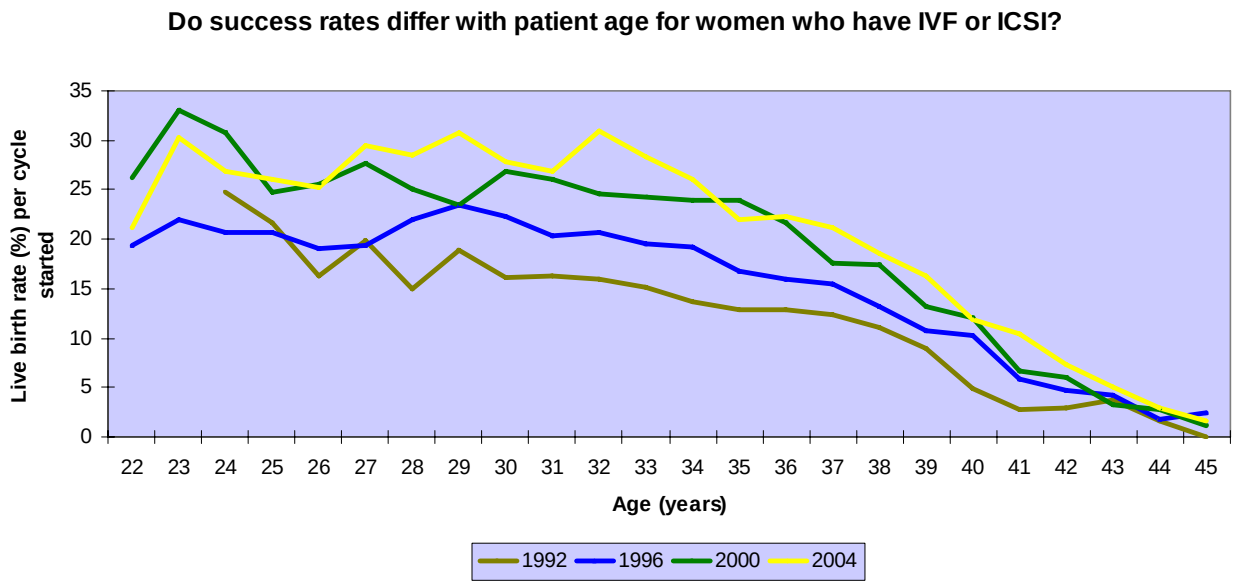
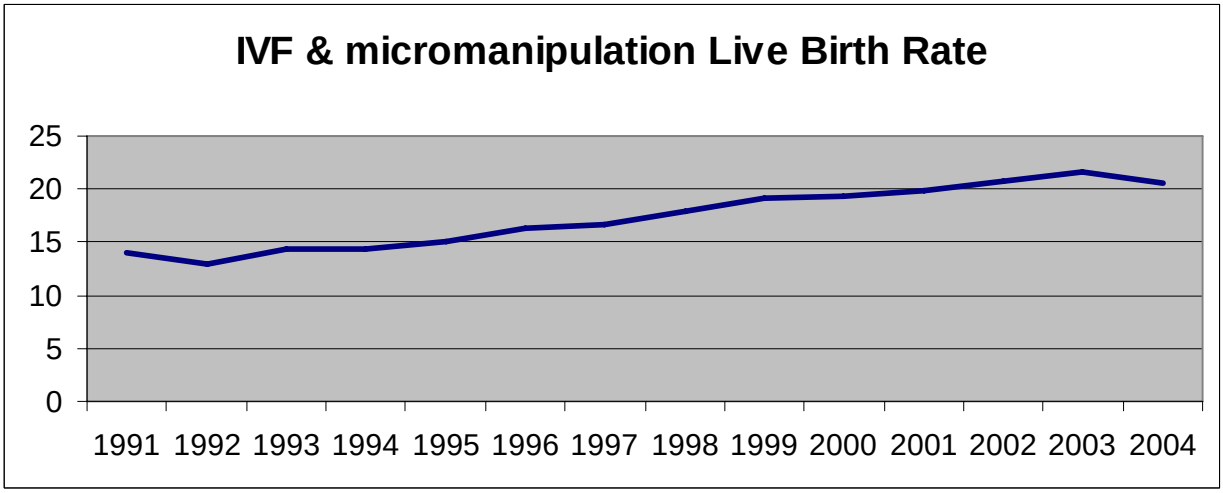


Figure 10b shows the increasing average IVF & micromanipulation live birth rate for all ages over the same period.

Figure 10b



11). Are more women having IVF later in life?

Figure 11a shows the trends for woman having infertility treatment later in life. Not only is the mode of the age distribution chart moving towards the right, but the shape of the chart is changing too - note is the swell in treatment numbers for patients aged 36-40. It is generated from the data in table 9.

Figure 11a

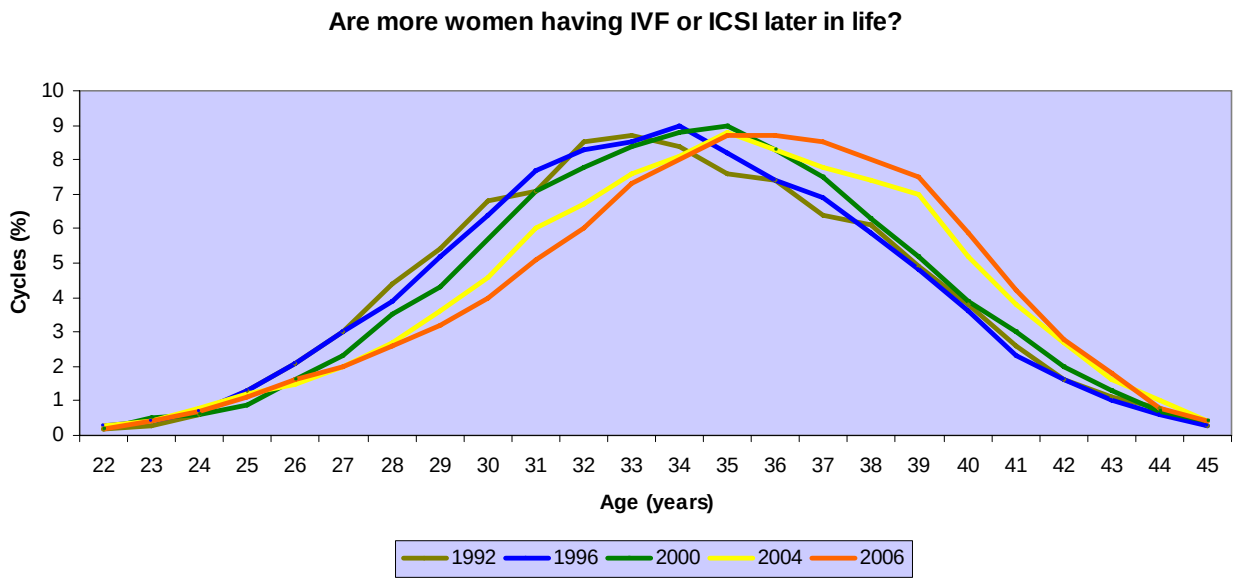
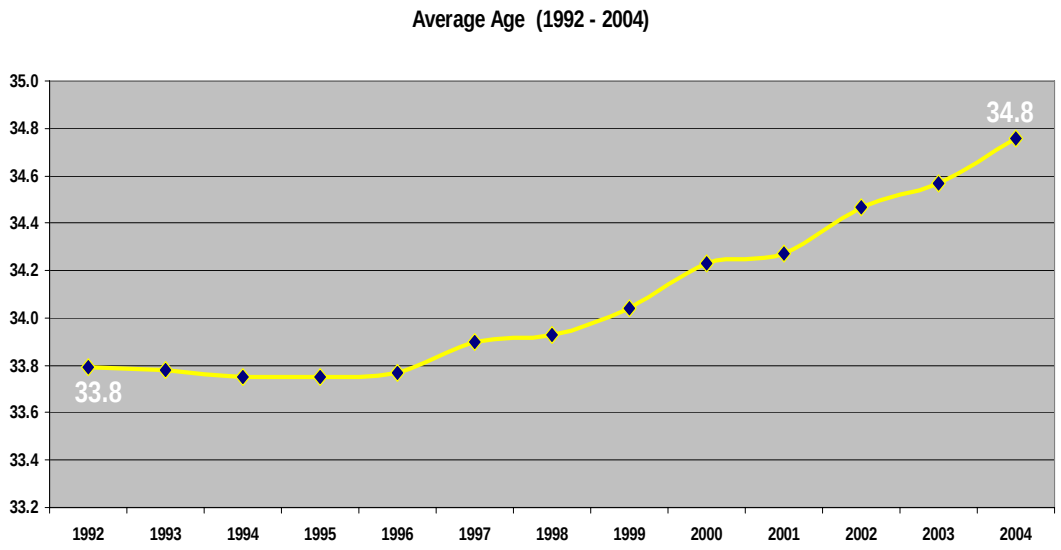


Figure 11b shows the increase in average age for all patients receiving IVF or micromanipulation particularly since 1996.

Figure 11b



12). Infertility trends over recent years

Table 12a shows the change in patient infertility. This table outlines a slight reported increase in male factor and tubal disease whilst the proportion of fertility problems that are unexplained is decreasing. The figures are best seen in figure 12b. Figure 12c shows the increase in reported male factor since the start of the new millennium.

Table 12a

	2000	2001	2002	2003	2004	2005	2006	2000-2006 Change
Male Factor	27.6	29.7	31.5	31.8	31.9	32.6	32.5	4.9
Tubal Disease	19.1	17.6	16.7	16.1	16.2	15.7	15.3	-3.8
Multiple factors female and male	19.1	16.1	14.6	13.4	12.2	11.5	10.8	-8.3
Unexplained	17.5	19.1	19.1	19.8	21	21.7	23.1	5.6
Ovulatory disorder	7.4	7.9	8.1	8.5	8.6	8.9	8.4	1
Multiple female factors	5.7	5.6	6	6.5	6.2	5.9	5.5	-0.2
Endometriosis	2.5	3	3	2.8	2.8	2.9	2.9	0.4
Other	0.8	0.7	0.7	0.8	0.8	0.7	1.1	0.3
Uterine	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.2

Figure 12b

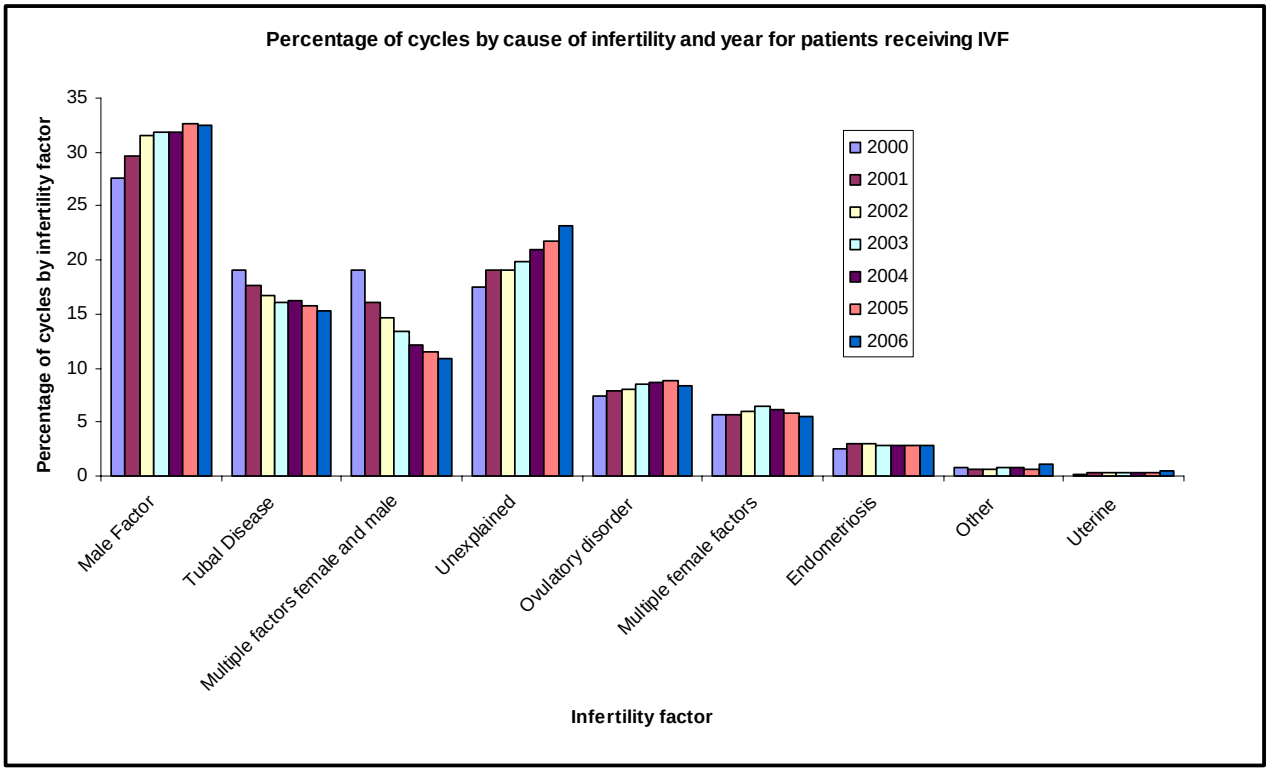
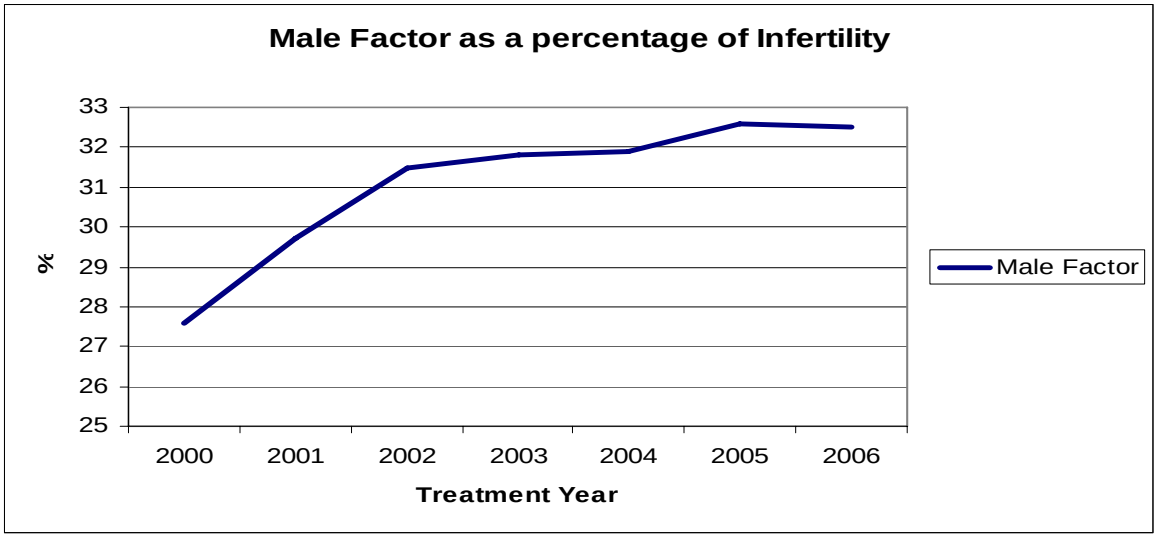


Figure 12c


Male Factor as a percentage of Infertility
33
32
31
30
29
28
27
26
25
%
2000
2001
2002
2003
2004
2005
2006
Treatment Year
Male Factor

13). Treatment type by source of eggs/embryos

Table 13a and 13b details the changing number of treatment cycles by egg/embryo source and fresh vs. frozen embryos. This shows the proportion of treatments using donated eggs/embryos has remained constant, and the proportion of frozen embryo transfers has increased with a corresponding reduction in fresh embryo transfers. This trend is best seen in figure 13c and may continue as the number off eggs collected & fertilised / stored continues to increase with improvements in gamete/embryo storage technology. Changes in policy around the maximum number of embryos which can be transferred to patients under the age of 40 were introduced in March 2004 have may also have an impact.

This data does not include PGD cycles or mixed GIFT/IVF cycles. These are cycles where at least one embryo is transferred together with an egg & sperm mixture in GIFT at the same time.

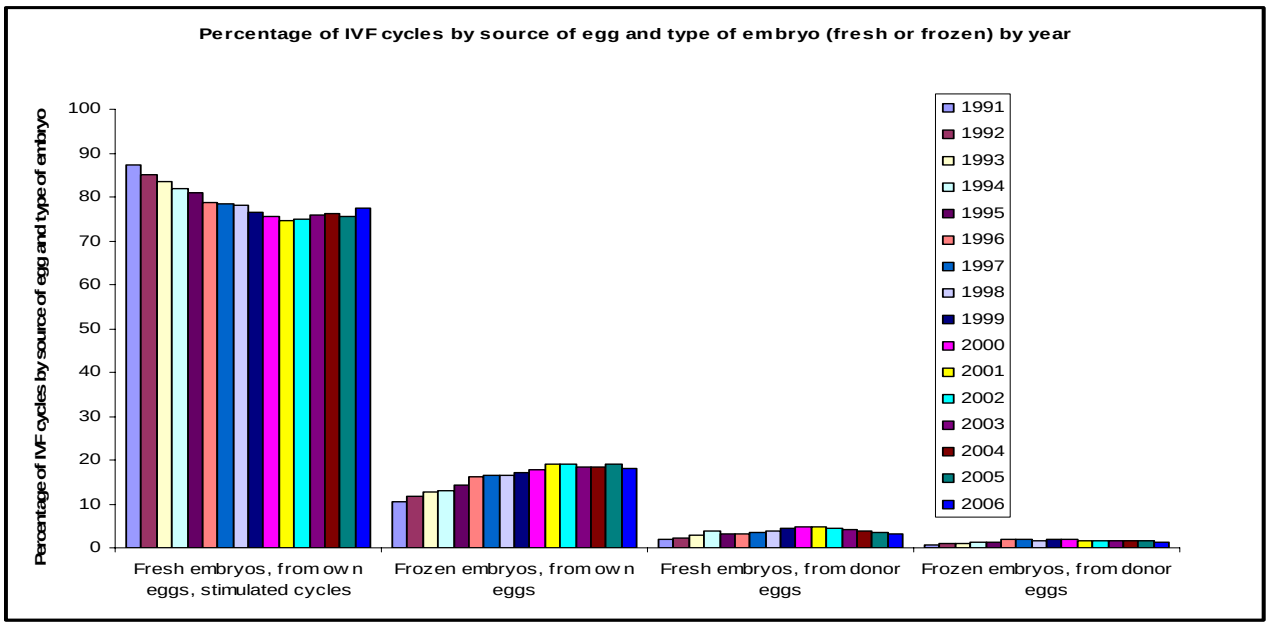
Table 13a

IVF procedure	1991	1992	1993	1994	1995	1996	1997	1998	1999
Fresh embryos, from own eggs, stimulated cycles	87.2	85	83.4	81.9	81.1	78.8	78.3	78.1	76.6
Frozen embryos, from own eggs	10.5	11.9	12.8	13	14.4	16.3	16.4	16.5	17.2
Fresh embryos, from donor eggs	1.8	2.3	2.7	3.7	3.2	3.1	3.5	3.7	4.4
Frozen embryos, from donor eggs	0.5	0.8	1.1	1.4	1.3	1.8	1.9	1.7	1.9

Table 13b

IVF procedure	2000	2001	2002	2003	2004	2005	2006
Fresh embryos, from own eggs, stimulated cycles	75.7	74.7	75	76	76.1	75.7	77.4
Frozen embryos, from own eggs	17.7	19	19.1	18.5	18.5	19	18.2
Fresh embryos, from donor eggs	4.8	4.7	4.4	4	3.9	3.6	3.1
Frozen embryos, from donor eggs	1.9	1.6	1.5	1.6	1.5	1.7	1.3

Figure 13c



14). Single vs. multiple outcomes for all IVF treatments

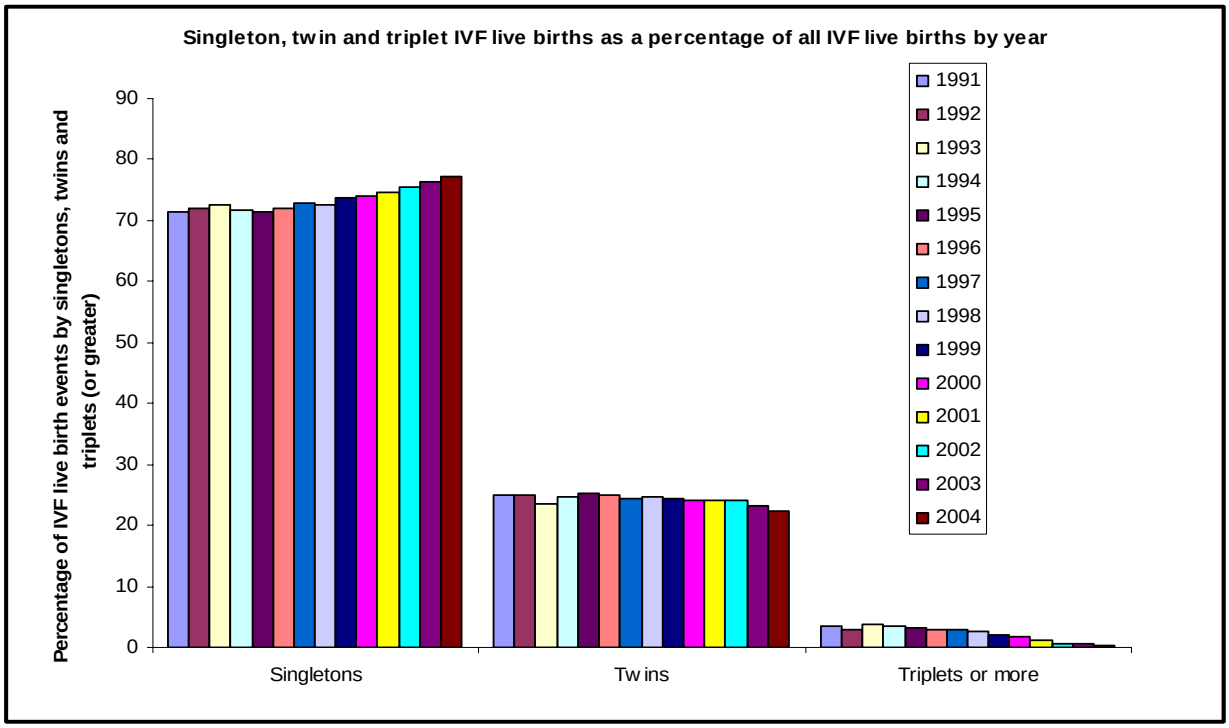
Table 14a provides the details behind the changing singleton and multiple birth rates resulting from all IVF treatments (e.g. IVF, ICSI, fresh/frozen embryos, own/donated gametes) shown in figure 14b. Because of the increased likelihood of complications associated with multiple births, it is pleasing to see the reduction in triplet births to a very low level. Combined with a smaller reduction in twin live birth rates, this has lead to a consistent, appreciable increase in singleton live birth rates.

This data does not include PGD cycles or mixed GIFT/IVF cycles. These are cycles where at least one embryo is transferred together with an egg & sperm mixture in GIFT at the same time.

Table 14a

	Percent of total live births													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Singletons	71.5	72.1	72.7	71.6	71.5	72	72.8	72.7	73.6	73.9	74.6	75.4	76.3	77.3
Twins	25	24.9	23.6	24.8	25.4	25.1	24.4	24.7	24.5	24.2	24.2	24	23.2	22.4
Triplets or more	3.4	2.9	3.7	3.6	3.1	2.9	2.8	2.6	1.9	1.8	1.2	0.7	0.5	0.3

Figure 14b



15). Live birth outcomes vs. number of embryos transferred

Table 15 compares the live birth outcomes to the number of embryos transferred over the years. All treatment cycles including frozen embryo replacements are included.

Cycles which were abandoned at any stage before embryo transfer are shown as zero embryos transferred in the table below. A small number of cycles are found in the Register which have an implausible number of embryos transferred but where live birth events took place. These cycles (labelled as error in the table below) have been included for completeness.

Note: Patients in individual categories may not add up to the total given because some patients have more than one cycle in a year where different numbers of embryos are transferred within each cycle.

Table 15a

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
1991	**0**	**Under 25**	37	40	0	++	0	++	0	++	0	++	0
1991	**0**	**25 - 29**	273	287	0	0	0	++	0	++	0	++	0
1991	**0**	**30 - 34**	551	568	0	0	0	++	0	++	0	++	0
1991	**0**	**35 - 39**	481	502	0	0	0	++	0	++	0	++	0
1991	**0**	**40 - 44**	132	149	0	0	0	++	0	++	0	++	0
1991	**0**	**45 and over**	12	14	0	++	0	++	0	++	0	++	0
1991	**0 - total**	**all ages**	1483	1560	0	0	0	++	0	++	0	++	0
1991	**1**	**Under 25**	5	6	0	++	0	++	0	++	0	++	0
1991	**1**	**25 - 29**	87	89	9	10.1	0	++	0	++	0	++	9
1991	**1**	**30 - 34**	222	229	21	9.2	0	++	0	++	0	++	21
1991	**1**	**35 - 39**	251	259	10	3.9	0	++	0	++	0	++	10
1991	**1**	**40 - 44**	80	81	0	0	0	++	0	++	0	++	0
1991	**1**	**45 and over**	8	8	0	++	0	++	0	++	0	++	0
1991	**1 - total**	**all ages**	653	672	40	6	0	++	0	++	0	++	40
1991	**2**	**Under 25**	25	25	7	++	1	++	1	++	0	++	8
1991	**2**	**25 - 29**	207	209	49	23.4	19	++	19	++	0	++	68
1991	**2**	**30 - 34**	551	561	117	20.9	21	17.9	21	17.9	0	0	138
1991	**2**	**35 - 39**	414	417	66	15.8	18	27.3	18	27.3	0	0	84

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
1991	**2**	**40 - 44**	116	119	8	6.7	1	++	1	++	0	++	9
1991	**2**	**45 and over**	8	8	0	++	0	++	0	++	0	++	0
1991	**2 - total**	**all ages**	1319	1339	247	18.4	60	24.3	60	24.3	0	0	307
1991	**3**	**Under 25**	32	34	6	++	3	++	2	++	1	++	10
1991	**3**	**25 - 29**	551	569	132	23.2	49	37.1	37	28	12	9.1	193
1991	**3**	**30 - 34**	1186	1226	298	24.3	107	35.9	90	30.2	17	5.7	422
1991	**3**	**35 - 39**	923	948	169	17.8	41	24.3	39	23.1	2	1.2	212
1991	**3**	**40 - 44**	267	276	32	11.6	5	++	5	++	0	++	37
1991	**3**	**45 and over**	23	27	6	++	0	++	0	++	0	++	6
1991	**3 - total**	**all ages**	2971	3080	643	20.9	205	31.9	173	26.9	32	5	880
1991	**all cycles**	**all ages**	6185	6651	930	14	265	28.5	233	25.1	32	3.4	1227
1992	**0**	**Under 25**	43	48	0	++	0	++	0	++	0	++	0
1992	**0**	**25 - 29**	520	579	0	0	0	++	0	++	0	++	0
1992	**0**	**30 - 34**	1344	1504	0	0	0	++	0	++	0	++	0
1992	**0**	**35 - 39**	1195	1357	0	0	0	++	0	++	0	++	0
1992	**0**	**40 - 44**	450	537	0	0	0	++	0	++	0	++	0
1992	**0**	**45 and over**	37	42	0	++	0	++	0	++	0	++	0
1992	**0 - total**	**all ages**	3551	4067	0	0	0	++	0	++	0	++	0
1992	**1**	**Under 25**	19	24	1	++	0	++	0	++	0	++	1
1992	**1**	**25 - 29**	217	226	24	10.6	0	++	0	++	0	++	24
1992	**1**	**30 - 34**	676	731	66	9	3	4.5	2	3	1	1.5	70
1992	**1**	**35 - 39**	599	638	38	6	0	++	0	++	0	++	38
1992	**1**	**40 - 44**	229	240	4	1.7	0	++	0	++	0	++	4
1992	**1**	**45 and over**	16	16	0	++	0	++	0	++	0	++	0
1992	**1 - total**	**all ages**	1749	1875	133	7.1	3	2.3	2	1.5	1	0.8	137
1992	**2**	**Under 25**	50	52	10	19.2	3	++	3	++	0	++	13
1992	**2**	**25 - 29**	658	726	146	20.1	36	24.7	36	24.7	0	0	182
1992	**2**	**30 - 34**	1532	1677	323	19.3	80	24.8	80	24.8	0	0	403
1992	**2**	**35 - 39**	1325	1434	212	14.8	41	19.3	40	18.9	1	0.5	254
1992	**2**	**40 - 44**	342	364	18	4.9	1	++	1	++	0	++	19
1992	**2**	**45 and over**	38	39	2	++	2	++	2	++	0	++	4

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
1992	**2 - total**	**all ages**	3907	4292	711	16.6	163	22.9	162	22.8	1	0.1	875
1992	**3**	**Under 25**	102	112	24	21.4	5	++	5	++	0	++	29
1992	**3**	**25 - 29**	1246	1417	322	22.7	121	37.6	100	31.1	21	6.5	464
1992	**3**	**30 - 34**	2861	3265	686	21	247	36	211	30.8	36	5.2	969
1992	**3**	**35 - 39**	2167	2478	434	17.5	115	26.5	104	24	11	2.5	560
1992	**3**	**40 - 44**	646	754	57	7.6	7	12.3	7	12.3	0	0	64
1992	**3**	**45 and over**	71	82	14	17.1	3	++	3	++	0	++	17
1992	**3 - total**	**all ages**	6981	8108	1537	19	498	32.4	430	28	68	4.4	2103
1992	**all cycles**	**all ages**	14065	18342	2381	13	664	27.9	594	24.9	70	2.9	3115
1993	**0**	**Under 25**	60	60	0	0	0	++	0	++	0	++	0
1993	**0**	**25 - 29**	574	621	0	0	0	++	0	++	0	++	0
1993	**0**	**30 - 34**	1439	1588	1	0.1	1	++	1	++	0	++	2
1993	**0**	**35 - 39**	1260	1424	0	0	0	++	0	++	0	++	0
1993	**0**	**40 - 44**	424	475	0	0	0	++	0	++	0	++	0
1993	**0**	**45 and over**	47	56	0	0	0	++	0	++	0	++	0
1993	**0 - total**	**all ages**	3771	4224	1	0	1	++	1	++	0	++	2
1993	**1**	**Under 25**	18	19	3	++	0	++	0	++	0	++	3
1993	**1**	**25 - 29**	256	268	23	8.6	2	++	2	++	0	++	25
1993	**1**	**30 - 34**	652	696	64	9.2	1	1.6	1	1.6	0	0	65
1993	**1**	**35 - 39**	754	806	54	6.7	0	0	0	0	0	0	54
1993	**1**	**40 - 44**	277	292	10	3.4	0	++	0	++	0	++	10
1993	**1**	**45 and over**	26	27	0	++	0	++	0	++	0	++	0
1993	**1 - total**	**all ages**	1972	2108	154	7.3	3	1.9	3	1.9	0	0	157
1993	**2**	**Under 25**	78	84	16	19	4	++	4	++	0	++	20
1993	**2**	**25 - 29**	820	885	192	21.7	42	21.9	41	21.4	1	0.5	235
1993	**2**	**30 - 34**	2039	2257	434	19.2	117	27	116	26.7	1	0.2	552
1993	**2**	**35 - 39**	1563	1706	251	14.7	43	17.1	42	16.7	1	0.4	295
1993	**2**	**40 - 44**	415	446	44	9.9	5	++	5	++	0	++	49
1993	**2**	**45 and over**	54	59	3	5.1	1	++	1	++	0	++	4
1993	**2 - total**	**all ages**	4927	5437	940	17.3	212	22.6	209	22.2	3	0.3	1155
1993	**3**	**Under 25**	135	151	35	23.2	14	++	10	++	4	++	53

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
1993	**3**	**25 - 29**	1385	1598	369	23.1	123	33.3	95	25.7	28	7.6	520
1993	**3**	**30 - 34**	3367	3970	869	21.9	290	33.4	230	26.5	60	6.9	1219
1993	**3**	**35 - 39**	2753	3245	654	20.2	191	29.2	172	26.3	19	2.9	865
1993	**3**	**40 - 44**	853	1009	109	10.8	18	16.5	16	14.7	2	1.8	129
1993	**3**	**45 and over**	104	126	18	14.3	7	++	7	++	0	++	25
1993	**3 - total**	**all ages**	8434	10099	2054	20.3	643	31.3	530	25.8	113	5.5	2811
1993	**all cycles**	**all ages**	16567	21868	3149	14.4	859	27.3	743	23.6	116	3.7	4125
1994	**0**	**Under 25**	59	60	0	0	0	++	0	++	0	++	0
1994	**0**	**25 - 29**	632	677	0	0	0	++	0	++	0	++	0
1994	**0**	**30 - 34**	1506	1627	0	0	0	++	0	++	0	++	0
1994	**0**	**35 - 39**	1431	1585	0	0	0	++	0	++	0	++	0
1994	**0**	**40 - 44**	513	568	0	0	0	++	0	++	0	++	0
1994	**0**	**45 and over**	60	64	0	0	0	++	0	++	0	++	0
1994	**0 - total**	**all ages**	4181	4581	0	0	0	++	0	++	0	++	0
1994	**1**	**Under 25**	17	17	1	++	0	++	0	++	0	++	1
1994	**1**	**25 - 29**	295	301	33	11	0	++	0	++	0	++	33
1994	**1**	**30 - 34**	814	834	62	7.4	4	6.5	4	6.5	0	0	66
1994	**1**	**35 - 39**	771	806	37	4.6	1	++	0	++	1	++	39
1994	**1**	**40 - 44**	302	311	8	2.6	0	++	0	++	0	++	8
1994	**1**	**45 and over**	47	49	1	++	0	++	0	++	0	++	1
1994	**1 - total**	**all ages**	2241	2318	142	6.1	5	3.5	4	2.8	1	0.7	148
1994	**2**	**Under 25**	109	121	19	15.7	3	++	3	++	0	++	22
1994	**2**	**25 - 29**	1115	1217	261	21.4	69	26.4	68	26.1	1	0.4	331
1994	**2**	**30 - 34**	2433	2674	483	18.1	110	22.8	110	22.8	0	0	593
1994	**2**	**35 - 39**	1788	1937	277	14.3	47	17	45	16.2	2	0.7	326
1994	**2**	**40 - 44**	449	471	31	6.6	4	++	4	++	0	++	35
1994	**2**	**45 and over**	61	62	7	11.3	1	++	1	++	0	++	8
1994	**2 - total**	**all ages**	5897	6482	1078	16.6	234	21.7	231	21.4	3	0.3	1315
1994	**3**	**Under 25**	145	155	40	25.8	13	++	11	++	2	++	55
1994	**3**	**25 - 29**	1512	1708	391	22.9	153	39.1	136	34.8	17	4.3	562
1994	**3**	**30 - 34**	3808	4384	1009	23	375	37.2	302	29.9	73	7.2	1457

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
1994	**3**	**35 - 39**	3315	3861	712	18.4	196	27.5	173	24.3	23	3.2	931
1994	**3**	**40 - 44**	990	1169	139	11.9	21	15.1	16	11.5	5	3.6	165
1994	**3**	**45 and over**	173	207	39	18.8	10	++	6	++	4	++	53
1994	**3**	**Unknown**	2	2	1	++	0	++	0	++	0	++	1
1994	**3 - total**	**all ages**	9795	11486	2331	20.3	768	32.9	644	27.6	124	5.3	3224
1994	**all cycles**	**all ages**	19296	24867	3551	14.3	1007	28.4	879	24.8	128	3.6	4687
1995	**0**	**Under 25**	86	93	0	0	0	++	0	++	0	++	0
1995	**0**	**25 - 29**	693	739	0	0	0	++	0	++	0	++	0
1995	**0**	**30 - 34**	1814	1954	0	0	0	++	0	++	0	++	0
1995	**0**	**35 - 39**	1715	1873	1	0.1	0	++	0	++	0	++	1
1995	**0**	**40 - 44**	600	660	0	0	0	++	0	++	0	++	0
1995	**0**	**45 and over**	83	89	0	0	0	++	0	++	0	++	0
1995	**0**	**Unknown**	1	1	0	++	0	++	0	++	0	++	0
1995	**0 - total**	**all ages**	4964	5409	1	0	0	++	0	++	0	++	1
1995	**1**	**Under 25**	35	35	0	++	0	++	0	++	0	++	0
1995	**1**	**25 - 29**	317	326	31	9.5	3	++	3	++	0	++	34
1995	**1**	**30 - 34**	883	907	79	8.7	2	2.5	1	1.3	1	1.3	82
1995	**1**	**35 - 39**	917	954	61	6.4	1	1.6	1	1.6	0	0	62
1995	**1**	**40 - 44**	341	355	7	2	0	++	0	++	0	++	7
1995	**1**	**45 and over**	59	60	1	1.7	0	++	0	++	0	++	1
1995	**1 - total**	**all ages**	2543	2637	179	6.8	6	3.4	5	2.8	1	0.6	186
1995	**2**	**Under 25**	144	152	34	22.4	11	++	11	++	0	++	45
1995	**2**	**25 - 29**	1391	1524	336	22	88	26.2	88	26.2	0	0	424
1995	**2**	**30 - 34**	2979	3279	609	18.6	156	25.6	156	25.6	0	0	765
1995	**2**	**35 - 39**	2204	2394	320	13.4	64	20	63	19.7	1	0.3	385
1995	**2**	**40 - 44**	547	581	38	6.5	3	++	3	++	0	++	41
1995	**2**	**45 and over**	77	84	4	4.8	0	++	0	++	0	++	4
1995	**2**	**Unknown**	1	1	1	++	0	++	0	++	0	++	1
1995	**2 - total**	**all ages**	7273	8015	1342	16.7	322	24	321	23.9	1	0.1	1665
1995	**3**	**Under 25**	163	185	39	21.1	10	++	8	++	2	++	51
1995	**3**	**25 - 29**	1699	1934	486	25.1	192	39.5	162	33.3	30	6.2	708

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
1995	**3**	**30 - 34**	4527	5254	1280	24.4	444	34.7	378	29.5	66	5.2	1791
1995	**3**	**35 - 39**	3780	4347	862	19.8	242	28.1	208	24.1	34	3.9	1138
1995	**3**	**40 - 44**	1150	1337	171	12.8	33	19.3	31	18.1	2	1.2	206
1995	**3**	**45 and over**	182	206	41	19.9	4	++	4	++	0	++	45
1995	**3**	**Unknown**	3	3	0	++	0	++	0	++	0	++	0
1995	**3 - total**	**all ages**	11313	13266	2879	21.7	925	32.1	791	27.5	134	4.7	3939
1995	**all cycles**	**all ages**	22649	29327	4401	15	1253	28.5	1117	25.4	136	3.1	5791
1996	**0**	**Under 25**	72	79	0	0	0	++	0	++	0	++	0
1996	**0**	**25 - 29**	733	799	0	0	0	++	0	++	0	++	0
1996	**0**	**30 - 34**	1872	2018	0	0	0	++	0	++	0	++	0
1996	**0**	**35 - 39**	1743	1898	0	0	0	++	0	++	0	++	0
1996	**0**	**40 - 44**	613	670	0	0	0	++	0	++	0	++	0
1996	**0**	**45 and over**	95	101	0	0	0	++	0	++	0	++	0
1996	**0 - total**	**all ages**	5097	5565	0	0	0	++	0	++	0	++	0
1996	**1**	**Under 25**	23	24	1	++	0	++	0	++	0	++	1
1996	**1**	**25 - 29**	292	295	28	9.5	0	++	0	++	0	++	28
1996	**1**	**30 - 34**	913	946	82	8.7	2	2.4	2	2.4	0	0	84
1996	**1**	**35 - 39**	984	1018	59	5.8	4	6.8	4	6.8	0	0	63
1996	**1**	**40 - 44**	401	420	16	3.8	0	++	0	++	0	++	16
1996	**1**	**45 and over**	66	67	2	3	0	++	0	++	0	++	2
1996	**1 - total**	**all ages**	2667	2770	188	6.8	6	3.2	6	3.2	0	0	194
1996	**2**	**Under 25**	194	206	44	21.4	11	++	11	++	0	++	55
1996	**2**	**25 - 29**	1738	1923	466	24.2	127	27.3	123	26.4	4	0.9	597
1996	**2**	**30 - 34**	4007	4502	947	21	214	22.6	212	22.4	2	0.2	1163
1996	**2**	**35 - 39**	2706	2976	478	16.1	87	18.2	87	18.2	0	0	565
1996	**2**	**40 - 44**	663	711	57	8	8	14	7	12.3	1	1.8	66
1996	**2**	**45 and over**	104	108	10	9.3	3	++	3	++	0	++	13
1996	**2 - total**	**all ages**	9314	10426	2002	19.2	450	22.5	443	22.1	7	0.3	2459
1996	**3**	**Under 25**	179	206	47	22.8	24	++	21	++	3	++	75
1996	**3**	**25 - 29**	1757	2063	527	25.5	194	36.8	160	30.4	34	6.5	755
1996	**3**	**30 - 34**	4768	5593	1422	25.4	502	35.3	429	30.2	73	5.1	1998

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
1996	**3**	**35 - 39**	4279	4995	998	20	276	27.7	243	24.3	33	3.3	1307
1996	**3**	**40 - 44**	1323	1555	222	14.3	58	26.1	55	24.8	3	1.4	283
1996	**3**	**45 and over**	250	289	60	20.8	18	30	14	23.3	4	6.7	82
1996	**3**	**Unknown**	1	1	0	++	0	++	0	++	0	++	0
1996	**3 - total**	**all ages**	12362	14702	3276	22.3	1072	32.7	922	28.1	150	4.6	4500
1996	**all cycles**	**all ages**	25353	33463	5466	16.3	1528	28	1371	25.1	157	2.9	7153
1997	**0**	**Under 25**	70	75	0	0	0	++	0	++	0	++	0
1997	**0**	**25 - 29**	743	796	0	0	0	++	0	++	0	++	0
1997	**0**	**30 - 34**	1820	1964	1	0.1	1	++	1	++	0	++	2
1997	**0**	**35 - 39**	1839	1969	1	0.1	1	++	1	++	0	++	2
1997	**0**	**40 - 44**	688	745	0	0	0	++	0	++	0	++	0
1997	**0**	**45 and over**	123	133	0	0	0	++	0	++	0	++	0
1997	**0**	**Unknown**	2	2	0	++	0	++	0	++	0	++	0
1997	**0 - total**	**all ages**	5245	5684	2	0	2	++	2	++	0	++	4
1997	**1**	**Under 25**	29	29	3	++	0	++	0	++	0	++	3
1997	**1**	**25 - 29**	323	330	35	10.6	0	++	0	++	0	++	35
1997	**1**	**30 - 34**	927	950	82	8.6	0	0	0	0	0	0	82
1997	**1**	**35 - 39**	1048	1077	83	7.7	1	1.2	1	1.2	0	0	84
1997	**1**	**40 - 44**	422	446	26	5.8	0	++	0	++	0	++	26
1997	**1**	**45 and over**	78	79	3	3.8	0	++	0	++	0	++	3
1997	**1**	**Unknown**	1	1	0	++	0	++	0	++	0	++	0
1997	**1 - total**	**all ages**	2823	2912	232	8	1	0.4	1	0.4	0	0	233
1997	**2**	**Under 25**	199	214	57	26.6	14	24.6	14	24.6	0	0	71
1997	**2**	**25 - 29**	1871	2030	473	23.3	125	26.4	125	26.4	0	0	598
1997	**2**	**30 - 34**	4409	4919	1123	22.8	287	25.6	284	25.3	3	0.3	1413
1997	**2**	**35 - 39**	3114	3399	570	16.8	76	13.3	76	13.3	0	0	646
1997	**2**	**40 - 44**	748	804	58	7.2	6	10.3	6	10.3	0	0	64
1997	**2**	**45 and over**	118	123	13	10.6	4	++	3	++	1	++	18
1997	**2**	**Unknown**	2	2	0	++	0	++	0	++	0	++	0
1997	**2 - total**	**all ages**	10348	11491	2294	20	512	22.3	508	22.1	4	0.2	2810
1997	**3**	**Under 25**	142	154	39	25.3	11	++	11	++	0	++	50

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
1997	**3**	**25 - 29**	1574	1819	459	25.2	178	38.8	135	29.4	43	9.4	680
1997	**3**	**30 - 34**	4478	5205	1352	26	487	36	417	30.8	70	5.2	1909
1997	**3**	**35 - 39**	4118	4769	988	20.7	284	28.7	250	25.3	34	3.4	1306
1997	**3**	**40 - 44**	1471	1692	215	12.7	45	20.9	40	18.6	5	2.3	265
1997	**3**	**45 and over**	261	296	62	20.9	16	25.8	13	21	3	4.8	81
1997	**3 - total**	**all ages**	11871	13935	3115	22.4	1021	32.8	866	27.8	155	5	4291
1997	**all cycles**	**all ages**	26299	34022	5643	16.6	1536	27.2	1377	24.4	159	2.8	7338
1998	**0**	**Under 25**	90	97	0	0	0	++	0	++	0	++	0
1998	**0**	**25 - 29**	626	677	0	0	0	++	0	++	0	++	0
1998	**0**	**30 - 34**	1601	1713	0	0	0	++	0	++	0	++	0
1998	**0**	**35 - 39**	1641	1762	1	0.1	0	++	0	++	0	++	1
1998	**0**	**40 - 44**	605	650	0	0	0	++	0	++	0	++	0
1998	**0**	**45 and over**	106	111	0	0	0	++	0	++	0	++	0
1998	**0**	**Unknown**	4	4	0	++	0	++	0	++	0	++	0
1998	**0 - total**	**all ages**	4648	5014	1	0	0	++	0	++	0	++	1
1998	**1**	**Under 25**	34	34	4	++	1	++	1	++	0	++	5
1998	**1**	**25 - 29**	288	295	21	7.1	0	++	0	++	0	++	21
1998	**1**	**30 - 34**	943	969	98	10.1	3	3.1	3	3.1	0	0	101
1998	**1**	**35 - 39**	1059	1112	77	6.9	2	2.6	2	2.6	0	0	79
1998	**1**	**40 - 44**	437	454	15	3.3	0	++	0	++	0	++	15
1998	**1**	**45 and over**	86	87	3	3.4	0	++	0	++	0	++	3
1998	**1**	**Unknown**	2	2	0	++	0	++	0	++	0	++	0
1998	**1 - total**	**all ages**	2842	2953	218	7.4	6	2.8	6	2.8	0	0	224
1998	**2**	**Under 25**	255	279	66	23.7	23	34.8	23	34.8	0	0	89
1998	**2**	**25 - 29**	2278	2546	658	25.8	171	26	169	25.7	2	0.3	831
1998	**2**	**30 - 34**	5353	6012	1505	25	382	25.4	377	25	5	0.3	1892
1998	**2**	**35 - 39**	3649	4134	752	18.2	154	20.5	151	20.1	3	0.4	909
1998	**2**	**40 - 44**	803	856	90	10.5	17	18.9	17	18.9	0	0	107
1998	**2**	**45 and over**	137	144	17	11.8	3	++	3	++	0	++	20
1998	**2**	**Unknown**	8	8	1	++	0	++	0	++	0	++	1
1998	**2 - total**	**all ages**	12333	13979	3089	22.1	750	24.3	740	24	10	0.3	3849

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
1998	**3**	**Under 25**	98	104	25	24	8	++	6	++	2	++	35
1998	**3**	**25 - 29**	1368	1594	384	24.1	154	40.1	119	31	35	9.1	573
1998	**3**	**30 - 34**	4069	4727	1225	25.9	453	37	380	31	73	6	1753
1998	**3**	**35 - 39**	4398	5112	1143	22.4	321	28.1	283	24.8	38	3.3	1502
1998	**3**	**40 - 44**	1495	1728	229	13.3	33	14.4	31	13.5	2	0.9	264
1998	**3**	**45 and over**	288	325	57	17.5	16	28.1	11	19.3	5	8.8	78
1998	**3**	**Unknown**	15	15	1	++	0	++	0	++	0	++	1
1998	**3 - total**	**all ages**	11557	13605	3064	22.5	985	32.1	830	27.1	155	5.1	4206
1998	**all cycles**	**all ages**	27271	35551	6372	17.9	1741	27.3	1576	24.7	165	2.6	8280
1999	**0**	**Under 25**	53	58	0	0	0	++	0	++	0	++	0
1999	**0**	**25 - 29**	499	518	5	1	0	++	0	++	0	++	5
1999	**0**	**30 - 34**	1474	1541	9	0.6	3	++	2	++	1	++	13
1999	**0**	**35 - 39**	1504	1596	13	0.8	3	++	2	++	1	++	17
1999	**0**	**40 - 44**	569	598	1	0.2	0	++	0	++	0	++	1
1999	**0**	**45 and over**	98	107	0	0	0	++	0	++	0	++	0
1999	**0**	**Unknown**	189	195	2	1	1	++	1	++	0	++	3
1999	**0 - total**	**all ages**	4370	4613	30	0.7	7	++	5	++	2	++	39
1999	**1**	**Under 25**	25	25	4	++	0	++	0	++	0	++	4
1999	**1**	**25 - 29**	277	282	31	11	0	++	0	++	0	++	31
1999	**1**	**30 - 34**	833	852	96	11.3	12	12.5	11	11.5	1	1	109
1999	**1**	**35 - 39**	974	1018	78	7.7	1	1.3	1	1.3	0	0	79
1999	**1**	**40 - 44**	408	421	22	5.2	0	++	0	++	0	++	22
1999	**1**	**45 and over**	78	80	6	7.5	0	++	0	++	0	++	6
1999	**1**	**Unknown**	79	80	4	5	0	++	0	++	0	++	4
1999	**1 - total**	**all ages**	2664	2758	241	8.7	13	5.4	12	5	1	0.4	255
1999	**2**	**Under 25**	253	271	82	30.3	24	29.3	23	28	1	1.2	107
1999	**2**	**25 - 29**	2191	2411	693	28.7	183	26.4	181	26.1	2	0.3	878
1999	**2**	**30 - 34**	5503	6154	1631	26.5	445	27.3	442	27.1	3	0.2	2079
1999	**2**	**35 - 39**	3781	4170	884	21.2	181	20.5	180	20.4	1	0.1	1066
1999	**2**	**40 - 44**	844	896	100	11.2	14	14	14	14	0	0	114
1999	**2**	**45 and over**	147	157	19	12.1	4	++	4	++	0	++	23

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
1999	**2**	**Unknown**	435	461	72	15.6	19	26.4	19	26.4	0	0	91
1999	**2 - total**	**all ages**	13029	14520	3481	24	870	25	863	24.8	7	0.2	4358
1999	**3**	**Under 25**	99	122	25	20.5	7	++	7	++	0	++	32
1999	**3**	**25 - 29**	1075	1206	330	27.4	121	36.7	104	31.5	17	5.2	469
1999	**3**	**30 - 34**	3631	4088	1063	26	368	34.6	305	28.7	63	5.9	1494
1999	**3**	**35 - 39**	4335	4930	1114	22.6	293	26.3	260	23.3	33	3	1440
1999	**3**	**40 - 44**	1604	1868	258	13.8	48	18.6	47	18.2	1	0.4	307
1999	**3**	**45 and over**	308	361	65	18	17	26.2	17	26.2	0	0	82
1999	**3**	**Unknown**	351	394	73	18.5	22	30.1	19	26	3	4.1	98
1999	**3 - total**	**all ages**	11255	12969	2928	22.6	876	29.9	759	25.9	117	4	3922
1999	**Error**	**Under 25**	1	1	0	++	0	++	0	++	0	++	0
1999	**Error**	**25 - 29**	2	2	1	++	0	++	0	++	0	++	1
1999	**Error**	**30 - 34**	6	6	2	++	1	++	1	++	0	++	3
1999	**Error**	**35 - 39**	8	8	1	++	0	++	0	++	0	++	1
1999	**Error**	**40 - 44**	2	2	0	++	0	++	0	++	0	++	0
1999	**Error**	**Unknown**	5	5	0	++	0	++	0	++	0	++	0
1999	**Error - total**	**all ages**	24	24	4	++	1	++	1	++	0	++	5
1999	**all cycles**	**all ages**	27801	34884	6684	19.2	1767	26.4	1640	24.5	127	1.9	8579
2000	**0**	**Under 25**	55	56	2	3.6	1	++	1	++	0	++	3
2000	**0**	**25 - 29**	490	520	4	0.8	0	++	0	++	0	++	4
2000	**0**	**30 - 34**	1428	1510	12	0.8	1	++	1	++	0	++	13
2000	**0**	**35 - 39**	1469	1557	12	0.8	1	++	1	++	0	++	13
2000	**0**	**40 - 44**	546	585	3	0.5	0	++	0	++	0	++	3
2000	**0**	**45 and over**	94	99	0	0	0	++	0	++	0	++	0
2000	**0**	**Unknown**	196	201	0	0	0	++	0	++	0	++	0
2000	**0 - total**	**all ages**	4263	4528	33	0.7	3	++	3	++	0	++	36
2000	**1**	**Under 25**	24	25	4	++	0	++	0	++	0	++	4
2000	**1**	**25 - 29**	209	212	25	11.8	1	++	1	++	0	++	26
2000	**1**	**30 - 34**	797	818	103	12.6	4	3.9	4	3.9	0	0	107
2000	**1**	**35 - 39**	985	1027	69	6.7	0	0	0	0	0	0	69
2000	**1**	**40 - 44**	425	452	17	3.8	0	++	0	++	0	++	17

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
2000	**1**	**45 and over**	88	89	4	4.5	0	++	0	++	0	++	4
2000	**1**	**Unknown**	89	91	4	4.4	0	++	0	++	0	++	4
2000	**1 - total**	**all ages**	2612	2714	226	8.3	5	2.2	5	2.2	0	0	231
2000	**2**	**Under 25**	299	329	115	35	30	26.1	30	26.1	0	0	145
2000	**2**	**25 - 29**	2296	2577	702	27.2	200	28.5	196	27.9	4	0.6	906
2000	**2**	**30 - 34**	6161	7010	1929	27.5	509	26.4	505	26.2	4	0.2	2442
2000	**2**	**35 - 39**	4616	5256	1151	21.9	223	19.4	220	19.1	3	0.3	1377
2000	**2**	**40 - 44**	1092	1191	132	11.1	22	16.7	22	16.7	0	0	154
2000	**2**	**45 and over**	215	229	48	21	11	++	11	++	0	++	59
2000	**2**	**Unknown**	619	680	135	19.9	36	26.7	36	26.7	0	0	171
2000	**2 - total**	**all ages**	15125	17272	4212	24.4	1031	24.5	1020	24.2	11	0.3	5254
2000	**3**	**Under 25**	87	94	22	23.4	13	++	12	++	1	++	36
2000	**3**	**25 - 29**	741	814	222	27.3	82	36.9	67	30.2	15	6.8	320
2000	**3**	**30 - 34**	2713	3107	800	25.7	289	36.1	232	29	57	7.1	1146
2000	**3**	**35 - 39**	3777	4374	1008	23	286	28.4	252	25	34	3.4	1328
2000	**3**	**40 - 44**	1637	1911	250	13.1	50	20	43	17.2	7	2.8	307
2000	**3**	**45 and over**	312	354	61	17.2	17	27.9	17	27.9	0	0	78
2000	**3**	**Unknown**	309	329	57	17.3	20	35.1	18	31.6	2	3.5	79
2000	**3 - total**	**all ages**	9459	10983	2420	22	757	31.3	641	26.5	116	4.8	3294
2000	**Error**	**25 - 29**	4	4	1	++	1	++	1	++	0	++	2
2000	**Error**	**30 - 34**	8	8	3	++	1	++	1	++	0	++	4
2000	**Error**	**35 - 39**	6	6	2	++	1	++	1	++	0	++	3
2000	**Error**	**40 - 44**	1	1	0	++	0	++	0	++	0	++	0
2000	**Error**	**Unknown**	4	4	0	++	0	++	0	++	0	++	0
2000	**Error - total**	**all ages**	23	23	6	++	3	++	3	++	0	++	9
2000	**all cycles**	**all ages**	27549	35520	6897	19.4	1799	26.1	1672	24.2	127	1.8	8824
2001	**0**	**Under 25**	59	62	0	0	0	++	0	++	0	++	0
2001	**0**	**25 - 29**	452	485	3	0.6	1	++	1	++	0	++	4
2001	**0**	**30 - 34**	1234	1311	8	0.6	2	++	2	++	0	++	10
2001	**0**	**35 - 39**	1401	1506	5	0.3	0	++	0	++	0	++	5
2001	**0**	**40 - 44**	580	614	2	0.3	1	++	1	++	0	++	3

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
2001	**0**	**45 and over**	98	103	1	1	1	++	1	++	0	++	2
2001	**0**	**Unknown**	203	208	1	0.5	1	++	1	++	0	++	2
2001	**0 - total**	**all ages**	4006	4289	20	0.5	6	++	6	++	0	++	26
2001	**1**	**Under 25**	19	19	1	++	0	++	0	++	0	++	1
2001	**1**	**25 - 29**	194	200	21	10.5	0	++	0	++	0	++	21
2001	**1**	**30 - 34**	712	747	77	10.3	1	1.3	1	1.3	0	0	78
2001	**1**	**35 - 39**	953	982	79	8	0	0	0	0	0	0	79
2001	**1**	**40 - 44**	491	513	21	4.1	2	++	1	++	1	++	24
2001	**1**	**45 and over**	57	61	4	6.6	0	++	0	++	0	++	4
2001	**1**	**Unknown**	140	141	4	2.8	0	++	0	++	0	++	4
2001	**1 - total**	**all ages**	2559	2663	207	7.8	3	1.4	2	1	1	0.5	211
2001	**2**	**Under 25**	305	341	107	31.4	31	29	31	29	0	0	138
2001	**2**	**25 - 29**	2567	2954	835	28.3	230	27.5	224	26.8	6	0.7	1071
2001	**2**	**30 - 34**	6920	8017	2305	28.8	619	26.9	610	26.5	9	0.4	2934
2001	**2**	**35 - 39**	5811	6735	1469	21.8	272	18.5	271	18.4	1	0.1	1742
2001	**2**	**40 - 44**	1323	1453	180	12.4	27	15	27	15	0	0	207
2001	**2**	**45 and over**	305	326	63	19.3	13	20.6	13	20.6	0	0	76
2001	**2**	**Unknown**	805	857	159	18.6	51	32.1	50	31.4	1	0.6	211
2001	**2 - total**	**all ages**	17839	20683	5118	24.7	1243	24.3	1226	24	17	0.3	6379
2001	**3**	**Under 25**	55	62	13	21	4	++	4	++	0	++	17
2001	**3**	**25 - 29**	533	600	151	25.2	54	35.8	49	32.5	5	3.3	210
2001	**3**	**30 - 34**	1971	2214	568	25.7	197	34.7	167	29.4	30	5.3	795
2001	**3**	**35 - 39**	2942	3400	753	22.1	228	30.3	206	27.4	22	2.9	1003
2001	**3**	**40 - 44**	1544	1810	264	14.6	53	20.1	49	18.6	4	1.5	321
2001	**3**	**45 and over**	255	285	58	20.4	25	43.1	20	34.5	5	8.6	88
2001	**3**	**Unknown**	268	280	48	17.1	15	++	13	++	2	++	65
2001	**3 - total**	**all ages**	7473	8651	1855	21.4	576	31.1	508	27.4	68	3.7	2499
2001	**Error**	**30 - 34**	2	2	1	++	0	++	0	++	0	++	1
2001	**Error**	**35 - 39**	5	5	1	++	0	++	0	++	0	++	1
2001	**Error**	**40 - 44**	1	1	0	++	0	++	0	++	0	++	0
2001	**Error - total**	**all ages**	8	8	2	++	0	++	0	++	0	++	2

A long term analysis of the HFEA Register data (1991-2006)

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
2001	**all cycles**	**all ages**	28316	36294	7202	19.8	1828	25.4	1742	24.2	86	1.2	9117
2002	**0**	**Under 25**	74	80	0	0	0	++	0	++	0	++	0
2002	**0**	**25 - 29**	513	542	3	0.6	0	++	0	++	0	++	3
2002	**0**	**30 - 34**	1378	1447	9	0.6	3	++	2	++	1	++	13
2002	**0**	**35 - 39**	1581	1690	13	0.8	4	++	4	++	0	++	17
2002	**0**	**40 - 44**	723	778	2	0.3	0	++	0	++	0	++	2
2002	**0**	**45 and over**	101	108	0	0	0	++	0	++	0	++	0
2002	**0**	**Unknown**	72	75	1	1.3	0	++	0	++	0	++	1
2002	**0 - total**	**all ages**	4423	4720	28	0.6	7	++	6	++	1	++	36
2002	**1**	**Under 25**	24	24	3	++	0	++	0	++	0	++	3
2002	**1**	**25 - 29**	230	239	24	10	0	++	0	++	0	++	24
2002	**1**	**30 - 34**	771	808	87	10.8	1	1.1	1	1.1	0	0	88
2002	**1**	**35 - 39**	1125	1174	97	8.3	1	1	1	1	0	0	98
2002	**1**	**40 - 44**	518	541	19	3.5	1	++	1	++	0	++	20
2002	**1**	**45 and over**	85	87	4	4.6	0	++	0	++	0	++	4
2002	**1**	**Unknown**	38	38	4	++	0	++	0	++	0	++	4
2002	**1 - total**	**all ages**	2789	2911	238	8.2	3	1.3	3	1.3	0	0	241
2002	**2**	**Under 25**	361	411	113	27.5	37	32.7	36	31.9	1	0.9	151
2002	**2**	**25 - 29**	2749	3175	933	29.4	281	30.1	277	29.7	4	0.4	1218
2002	**2**	**30 - 34**	8030	9453	2783	29.4	751	27	745	26.8	6	0.2	3540
2002	**2**	**35 - 39**	7497	8871	2140	24.1	456	21.3	451	21.1	5	0.2	2601
2002	**2**	**40 - 44**	1875	2106	294	14	58	19.7	55	18.7	3	1	355
2002	**2**	**45 and over**	410	451	94	20.8	25	26.6	25	26.6	0	0	119
2002	**2**	**Unknown**	258	276	75	27.2	17	22.7	17	22.7	0	0	92
2002	**2 - total**	**all ages**	20864	24743	6432	26	1625	25.3	1606	25	19	0.3	8076
2002	**3**	**Under 25**	13	14	3	++	1	++	1	++	0	++	4
2002	**3**	**25 - 29**	209	231	65	28.1	18	27.7	13	20	5	7.7	88
2002	**3**	**30 - 34**	1005	1104	287	26	89	31	81	28.2	8	2.8	384
2002	**3**	**35 - 39**	1801	2009	483	24	129	26.7	115	23.8	14	2.9	626
2002	**3**	**40 - 44**	1298	1521	210	13.8	28	13.3	25	11.9	3	1.4	241
2002	**3**	**45 and over**	172	183	35	19.1	14	++	14	++	0	++	49

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
2002	3	Unknown	46	48	7	++	2	++	1	++	1	++	10
2002	3 - total	all ages	4497	5110	1090	21.3	281	25.8	250	22.9	31	2.8	1402
2002	Error	25 - 29	2	2	1	++	0	++	0	++	0	++	1
2002	Error	30 - 34	5	5	1	++	1	++	1	++	0	++	2
2002	Error	35 - 39	11	11	4	++	1	++	1	++	0	++	5
2002	Error	40 - 44	4	4	0	++	0	++	0	++	0	++	0
2002	Error	45 and over	1	1	0	++	0	++	0	++	0	++	0
2002	Error - total	all ages	23	23	6	++	2	++	2	++	0	++	8
2002	all cycles	all ages	28980	37507	7794	20.8	1918	24.6	1867	24	51	0.7	9763
2003	0	Under 25	81	84	0	0	0	++	0	++	0	++	0
2003	0	25 - 29	457	482	0	0	0	++	0	++	0	++	0
2003	0	30 - 34	1379	1441	5	0.3	0	++	0	++	0	++	5
2003	0	35 - 39	1770	1892	7	0.4	2	++	2	++	0	++	9
2003	0	40 - 44	781	840	1	0.1	0	++	0	++	0	++	1
2003	0	45 and over	118	122	0	0	0	++	0	++	0	++	0
2003	0	Unknown	16	16	0	++	0	++	0	++	0	++	0
2003	0 - total	all ages	4579	4877	13	0.3	2	++	2	++	0	++	15
2003	1	Under 25	37	40	4	++	0	++	0	++	0	++	4
2003	1	25 - 29	235	238	33	13.9	0	++	0	++	0	++	33
2003	1	30 - 34	882	918	125	13.6	4	3.2	4	3.2	0	0	129
2003	1	35 - 39	1265	1331	127	9.5	1	0.8	1	0.8	0	0	128
2003	1	40 - 44	554	584	22	3.8	0	++	0	++	0	++	22
2003	1	45 and over	99	101	9	8.9	0	++	0	++	0	++	9
2003	1	Unknown	12	12	3	++	0	++	0	++	0	++	3
2003	1 - total	all ages	3073	3224	323	10	5	1.5	5	1.5	0	0	328
2003	2	Under 25	399	444	137	30.9	43	31.4	41	29.9	2	1.5	182
2003	2	25 - 29	2693	3094	997	32.2	288	28.9	284	28.5	4	0.4	1289
2003	2	30 - 34	8022	9345	2930	31.4	792	27	784	26.8	8	0.3	3730
2003	2	35 - 39	8105	9555	2340	24.5	500	21.4	498	21.3	2	0.1	2842
2003	2	40 - 44	2113	2390	383	16	71	18.5	70	18.3	1	0.3	455
2003	2	45 and over	418	461	100	21.7	28	28	28	28	0	0	128

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
2003	**2**	**Unknown**	81	89	47	52.8	8	++	8	++	0	++	55
2003	**2 - total**	**all ages**	21527	25378	6934	27.3	1730	24.9	1713	24.7	17	0.2	8681
2003	**3**	**Under 25**	13	14	3	++	2	++	2	++	0	++	5
2003	**3**	**25 - 29**	165	177	39	22	14	++	12	++	2	++	55
2003	**3**	**30 - 34**	785	862	237	27.5	66	27.8	59	24.9	7	3	310
2003	**3**	**35 - 39**	1501	1657	381	23	81	21.3	71	18.6	10	2.6	472
2003	**3**	**40 - 44**	1085	1237	161	13	22	13.7	19	11.8	3	1.9	186
2003	**3**	**45 and over**	124	129	17	13.2	2	++	2	++	0	++	19
2003	**3**	**Unknown**	13	13	2	++	0	++	0	++	0	++	2
2003	**3 - total**	**all ages**	3648	4089	840	20.5	187	22.3	165	19.6	22	2.6	1049
2003	**Error**	**25 - 29**	1	1	0	++	0	++	0	++	0	++	0
2003	**Error**	**35 - 39**	2	2	1	++	1	++	1	++	0	++	2
2003	**Error - total**	**all ages**	3	3	1	++	1	++	1	++	0	++	2
2003	**all cycles**	**all ages**	29340	37571	8111	21.6	1925	23.7	1886	23.3	39	0.5	10075
2004	**0**	**Under 25**	94	97	1	1	0	++	0	++	0	++	1
2004	**0**	**25 - 29**	505	538	1	0.2	0	++	0	++	0	++	1
2004	**0**	**30 - 34**	1373	1458	7	0.5	1	++	1	++	0	++	8
2004	**0**	**35 - 39**	1923	2076	11	0.5	3	++	3	++	0	++	14
2004	**0**	**40 - 44**	940	1006	0	0	0	++	0	++	0	++	0
2004	**0**	**45 and over**	128	133	1	0.8	0	++	0	++	0	++	1
2004	**0**	**Unknown**	8	8	0	++	0	++	0	++	0	++	0
2004	**0 - total**	**all ages**	4954	5316	21	0.4	4	++	4	++	0	++	25
2004	**1**	**Under 25**	42	42	4	++	0	++	0	++	0	++	4
2004	**1**	**25 - 29**	268	279	42	15.1	0	++	0	++	0	++	42
2004	**1**	**30 - 34**	1008	1078	138	12.8	0	0	0	0	0	0	138
2004	**1**	**35 - 39**	1474	1567	154	9.8	1	0.6	1	0.6	0	0	155
2004	**1**	**40 - 44**	755	790	31	3.9	1	++	1	++	0	++	32
2004	**1**	**45 and over**	100	100	4	4	0	++	0	++	0	++	4
2004	**1**	**Unknown**	5	5	0	++	0	++	0	++	0	++	0
2004	**1 - total**	**all ages**	3629	3861	373	9.7	2	0.5	2	0.5	0	0	375
2004	**2**	**Under 25**	417	473	144	30.4	44	30.6	43	29.9	1	0.7	189

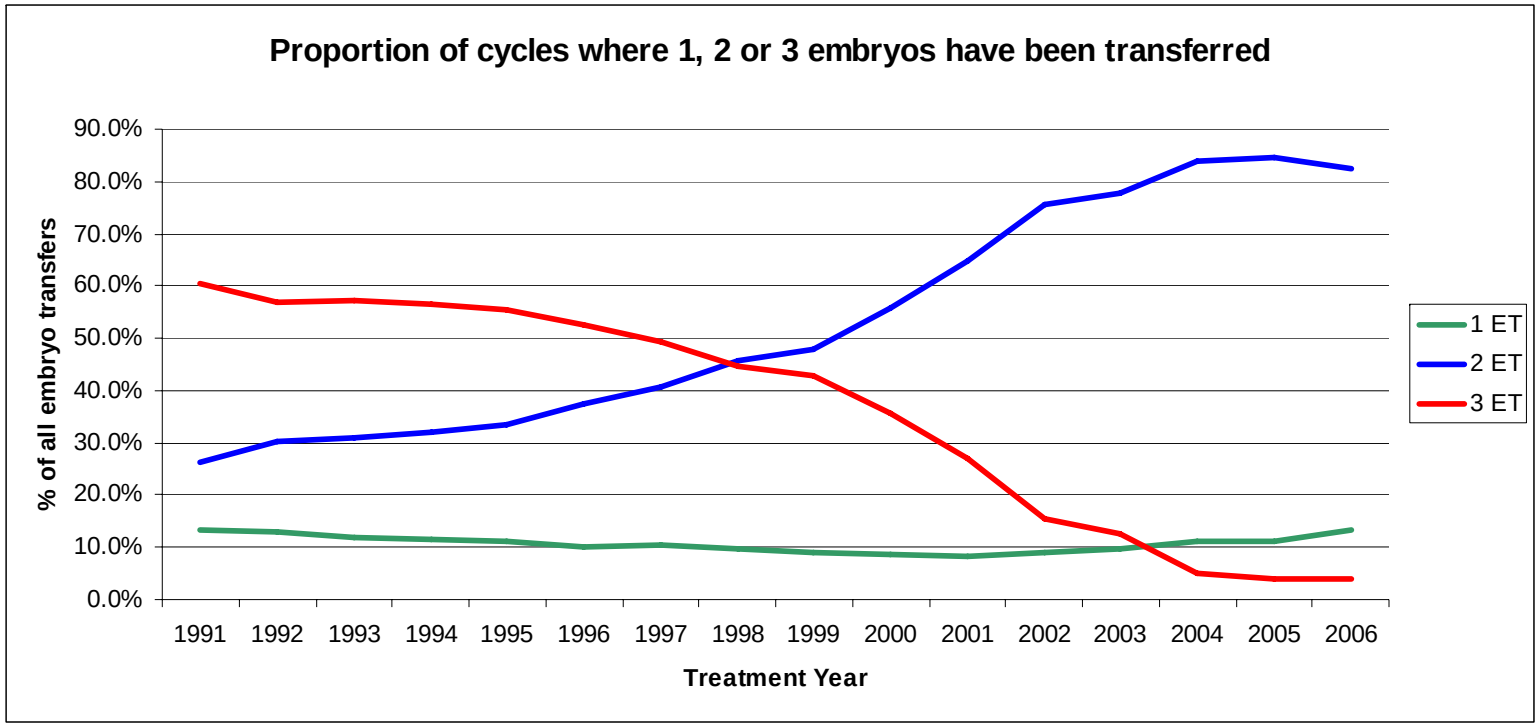
Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
2004	**2**	**25 - 29**	2816	3314	1038	31.3	305	29.4	300	28.9	5	0.5	1348
2004	**2**	**30 - 34**	8475	10131	3110	30.7	814	26.2	809	26	5	0.2	3929
2004	**2**	**35 - 39**	9671	11652	2725	23.4	560	20.6	552	20.3	8	0.3	3293
2004	**2**	**40 - 44**	2627	3049	450	14.8	66	14.7	66	14.7	0	0	516
2004	**2**	**45 and over**	492	541	133	24.6	32	24.1	32	24.1	0	0	165
2004	**2**	**Unknown**	43	47	10	++	1	++	1	++	0	++	11
2004	**2 - total**	**all ages**	24192	29207	7610	26.1	1822	23.9	1803	23.7	19	0.2	9451
2004	**3**	**Under 25**	4	4	0	++	0	++	0	++	0	++	0
2004	**3**	**25 - 29**	24	24	7	++	2	++	2	++	0	++	9
2004	**3**	**30 - 34**	100	101	29	28.7	10	++	9	++	1	++	40
2004	**3**	**35 - 39**	255	266	58	21.8	13	22.4	12	20.7	1	1.7	72
2004	**3**	**40 - 44**	1135	1310	180	13.7	27	15	25	13.9	2	1.1	209
2004	**3**	**45 and over**	67	68	2	2.9	2	++	2	++	0	++	4
2004	**3**	**Unknown**	3	3	0	++	0	++	0	++	0	++	0
2004	**3 - total**	**all ages**	1574	1776	276	15.5	54	19.6	50	18.1	4	1.4	334
2004	**Error**	**30 - 34**	1	1	0	++	0	++	0	++	0	++	0
2004	**Error**	**35 - 39**	2	2	0	++	0	++	0	++	0	++	0
2004	**Error**	**40 - 44**	1	1	0	++	0	++	0	++	0	++	0
2004	**Error - total**	**all ages**	4	4	0	++	0	++	0	++	0	++	0
2004	**all cycles**	**all ages**	30861	40164	8280	20.6	1882	22.7	1859	22.5	23	0.3	10185
2005	**0**	**Under 25**	77	83									
2005	**0**	**25 - 29**	557	596									
2005	**0**	**30 - 34**	1439	1535									
2005	**0**	**35 - 39**	1936	2049									
2005	**0**	**40 - 44**	1003	1072									
2005	**0**	**45 and over**	134	142									
2005	**0**	**Unknown**	203	208									
2005	**0 - total**	**all ages**	5316	5685									
2005	**1**	**Under 25**	31	32									
2005	**1**	**25 - 29**	261	273									
2005	**1**	**30 - 34**	952	989									

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
2005	**1**	**35 - 39**	1572	1679									
2005	**1**	**40 - 44**	811	859									
2005	**1**	**45 and over**	103	108									
2005	**1**	**Unknown**	153	157									
2005	**1 - total**	**all ages**	3863	4097									
2005	**2**	**Under 25**	412	476									
2005	**2**	**25 - 29**	2753	3161									
2005	**2**	**30 - 34**	8597	10122									
2005	**2**	**35 - 39**	10037	12066									
2005	**2**	**40 - 44**	2821	3249									
2005	**2**	**45 and over**	455	506									
2005	**2**	**Unknown**	758	836									
2005	**2 - total**	**all ages**	25469	30416									
2005	**3**	**Under 25**	1	1									
2005	**3**	**25 - 29**	2	2									
2005	**3**	**30 - 34**	13	13									
2005	**3**	**35 - 39**	55	57									
2005	**3**	**40 - 44**	1140	1316									
2005	**3**	**45 and over**	50	57									
2005	**3**	**Unknown**	69	81									
2005	**3 - total**	**all ages**	1325	1527									
2005	**Error**	**30 - 34**	2	2									
2005	**Error**	**35 - 39**	2	2									
2005	**Error**	**40 - 44**	4	4									
2005	**Error - total**	**all ages**	8	8									
2005	**all cycles**	**all ages**	32558	41733									
2006	**0**	**Under 25**	97	99									
2006	**0**	**25 - 29**	450	467									
2006	**0**	**30 - 34**	1211	1260									
2006	**0**	**35 - 39**	1792	1906									
2006	**0**	**40 - 44**	922	984									

Year	Embryos Transferred	Age Range	Patients	Treatment Cycles	Live Births	Live Birth Rate	Multiple Births	Multiple Live Birth Rate	Twins Live Births	Twin Live Birth Rate	Triplet and Quad Live Births	Triplet and Quad Live Birth Rate	Babies
2006	0	45 and over	110	111									
2006	0	Unknown	241	249									
2006	0 - total	all ages	4806	5076									
2006	1	Under 25	48	50									
2006	1	25 - 29	312	334									
2006	1	30 - 34	1186	1262									
2006	1	35 - 39	1891	2050									
2006	1	40 - 44	919	968									
2006	1	45 and over	122	130									
2006	1	Unknown	206	211									
2006	1 - total	all ages	4675	5005									
2006	2	Under 25	429	483									
2006	2	25 - 29	2792	3214									
2006	2	30 - 34	8065	9352									
2006	2	35 - 39	10561	12616									
2006	2	40 - 44	2980	3379									
2006	2	45 and over	408	460									
2006	2	Unknown	1261	1365									
2006	2 - total	all ages	26143	30869									
2006	3	Under 25	7	8									
2006	3	25 - 29	1	1									
2006	3	30 - 34	12	12									
2006	3	35 - 39	33	34									
2006	3	40 - 44	1197	1357									
2006	3	45 and over	61	63									
2006	3	Unknown	107	113									
2006	3 - total	all ages	1413	1588									
2006	Error	35 - 39	2	2									
2006	Error	Unknown	1	1									
2006	Error - total	all ages	3	3									
2006	all cycles	all ages	33715	42541									

The proportion of single, two and three embryo transfers for all transfers regardless of age in the table above is shown graphically below. This shows the dramatic decrease in three embryo transfers over time in the UK, and the corresponding increase in two embryo transfers. The data collected by the HFEA from the clinics does not identify elective single embryo transfers (SET). This will be collected from October 2007.

Figure 15b



16). Frozen Embryo Replacement (FER) clinical pregnancy rate and outcomes for various sources of gametes/embryos

Table 16 compares the outcome rates for all frozen embryo replacements against the source of gametes/embryos.

There are a small number of cycles where the egg or sperm source is not clear. These indeterminate cycles have been included for completeness of live births but it has not been possible at this time to correct the treatment data.

Note: This data excludes cycles where both a fresh and frozen (thawed) embryo were transferred in the same cycle.

Table 16

Year	Gamete source	Patients	Treatment Cycles	Embryo Transfers	Embryo Transfer Rate	Clinical Pregnancies	Clinical Pregnancy Rate	Live Births	Live Birth Rate	Babies Born
1991	**Own Gametes**	570	613	613	100	120	19.6	93	15.2	113
1991	**Donated Sperm**	49	49	49	++	12	++	9	++	10
1991	**Donated Eggs**	21	21	21	++	3	++	2	++	2
1991	**Donated Embryos**	11	11	11	++	1	++	1	++	1
1991	**Totals**	650	694	694	100	136	19.6	105	15.1	126
1992	**Own Gametes**	1566	1872	1872	100	275	14.7	212	11.3	248
1992	**Donated Sperm**	191	217	217	100	29	13.4	20	9.2	23
1992	**Donated Eggs**	85	96	96	100	17	17.7	12	12.5	16
1992	**Donated Embryos**	41	48	48	++	11	++	8	++	11
1992	**Totals**	1857	2233	2233	100	332	14.9	252	11.3	298
1993	**Own Gametes**	2024	2401	2401	100	376	15.7	307	12.8	360
1993	**Donated Sperm**	251	297	297	100	49	16.5	38	12.8	41
1993	**Donated Eggs**	152	178	178	100	30	16.9	22	12.4	30
1993	**Donated Embryos**	52	63	63	100	10	15.9	9	14.3	12
1993	**Totals**	2461	2939	2939	100	465	15.8	376	12.8	443

Year	Gamete source	Patients	Treatment Cycles	Embryo Transfers	Embryo Transfer Rate	Clinical Pregnancies	Clinical Pregnancy Rate	Live Births	Live Birth Rate	Babies Born
1994	**Own Gametes**	2425	2863	2793	97.6	401	14	314	11	363
1994	**Donated Sperm**	258	294	284	96.6	51	17.3	43	14.6	51
1994	**Donated Eggs**	188	228	226	99.1	39	17.1	29	12.7	35
1994	**Donated Embryos**	89	106	106	100	19	17.9	16	15.1	20
1994	**Totals**	2941	3491	3409	97.7	510	14.6	402	11.5	469
1995	**Own Gametes**	3223	3816	3681	96.5	545	14.3	429	11.2	519
1995	**Donated Sperm**	313	356	340	95.5	65	18.3	53	14.9	70
1995	**Donated Eggs**	247	274	266	97.1	57	20.8	44	16.1	50
1995	**Donated Embryos**	88	102	97	95.1	18	17.6	16	15.7	19
1995	**Totals**	3853	4548	4384	96.4	685	15.1	542	11.9	658
1996	**Own Gametes**	4208	5005	4619	92.3	656	13.1	543	10.8	651
1996	**Donated Sperm**	354	403	374	92.8	73	18.1	59	14.6	73
1996	**Donated Eggs**	360	419	388	92.6	73	17.4	55	13.1	68
1996	**Donated Embryos**	144	167	154	92.2	39	23.4	34	20.4	43
1996	**Totals**	5041	5994	5535	92.3	841	14	691	11.5	835
1997	**Own Gametes**	4385	5171	4563	88.2	716	13.8	560	10.8	666
1997	**Donated Sperm**	325	378	334	88.4	71	18.8	53	14	72
1997	**Donated Eggs**	375	435	391	89.9	68	15.6	54	12.4	67
1997	**Donated Embryos**	157	194	185	95.4	46	23.7	40	20.6	51
1997	**Totals**	5219	6178	5473	88.6	901	14.6	707	11.4	856
1998	**Own Gametes**	4752	5551	5002	90.1	783	14.1	641	11.5	760
1998	**Donated Sperm**	252	285	258	90.5	57	20	45	15.8	51
1998	**Donated Eggs**	392	442	391	88.5	80	18.1	62	14	73
1998	**Donated Embryos**	145	167	158	94.6	37	22.2	33	19.8	41
1998	**Totals**	5521	6445	5809	90.1	957	14.8	781	12.1	925

A long term analysis of the HFEA Register data (1991-2006)

Year	gamete source	Patients	Treatment Cycles	Embryo Transfers	Embryo Transfer Rate	Clinical Pregnancies	Clinical Pregnancy Rate	Live Births	Live Birth Rate	Babies Born
1999	**Own Gametes**	4994	5650	5011	88.7	840	14.9	716	12.7	843
1999	**Donated Sperm**	254	291	252	86.6	37	12.7	32	11	38
1999	**Donated Eggs**	412	469	431	91.9	78	16.6	60	12.8	72
1999	**Donated Embryos**	159	191	173	90.6	43	22.5	36	18.8	45
1999	**Indeterminate**	1	1	0	++	0	++	0	++	0
1999	**Totals**	5799	6602	5867	88.9	998	15.1	844	12.8	998
2000	**Own Gametes**	5194	5994	5406	90.2	883	14.7	773	12.9	908
2000	**Donated Sperm**	201	224	195	87.1	41	18.3	38	17	43
2000	**Donated Eggs**	427	485	432	89.1	81	16.7	71	14.6	79
2000	**Donated Embryos**	144	172	156	90.7	33	19.2	26	15.1	32
2000	**Indeterminate**	2	2	1	++	0	++	0	++	0
2000	**Totals**	5955	6877	6190	90	1038	15.1	908	13.2	1062
2001	**Own Gametes**	5738	6569	5924	90.2	1039	15.8	879	13.4	1039
2001	**Donated Sperm**	229	264	239	90.5	46	17.4	37	14	43
2001	**Donated Eggs**	359	390	350	89.7	68	17.4	58	14.9	66
2001	**Donated Embryos**	166	192	178	92.7	51	26.6	44	22.9	55
2001	**Totals**	6467	7415	6691	90.2	1204	16.2	1018	13.7	1203
2002	**Own Gametes**	5945	6853	6051	88.3	1100	16.1	941	13.7	1119
2002	**Donated Sperm**	195	225	199	88.4	40	17.8	37	16.4	45
2002	**Donated Eggs**	362	402	360	89.6	80	19.9	68	16.9	75
2002	**Donated Embryos**	142	159	150	94.3	27	17	24	15.1	29
2002	**Indeterminate**	1	1	0	++	0	++	0	++	0
2002	**Totals**	6631	7640	6760	88.5	1247	16.3	1070	14	1268
2003	**Own Gametes**	5825	6666	5907	88.6	1169	17.5	1030	15.5	1197
2003	**Donated Sperm**	179	202	174	86.1	39	19.3	32	15.8	40
2003	**Donated Eggs**	379	422	379	89.8	88	20.9	81	19.2	95
2003	**Donated Embryos**	136	157	145	92.4	39	24.8	34	21.7	43
2003	**Indeterminate**	1	1	1	++	1	++	1	++	1
2003	**Totals**	6505	7448	6606	88.7	1336	17.9	1178	15.8	1376

A long term analysis of the HFEA Register data (1991-2006)

Year	Gamete source	Patients	Treatment Cycles	Embryo Transfers	Embryo Transfer Rate	Clinical Pregnancies	Clinical Pregnancy Rate	Live Births	Live Birth Rate	Babies Born
2004	**Own Gametes**	6129	7151	6386	89.3	1178	16.5	1027	14.4	1194
2004	**Donated Sperm**	176	209	186	89	44	21.1	34	16.3	37
2004	**Donated Eggs**	401	451	394	87.4	86	19.1	73	16.2	86
2004	**Donated Embryos**	125	150	135	90	35	23.3	32	21.3	36
2004	**Totals**	6817	7961	7101	89.2	1343	16.9	1166	14.6	1353
2005	**Own Gametes**	6244	7337	6589	89.8	1318	18			
2005	**Donated Sperm**	185	209	189	90.4	50	23.9			
2005	**Donated Eggs**	477	534	492	92.1	101	18.9			
2005	**Donated Embryos**	132	149	133	89.3	38	25.5			
2005	**Totals**	7008	8229	7403	90	1507	18.3			
2006	**Own Gametes**	6417	7356	6793	92.3	1415	19.2			
2006	**Donated Sperm**	193	220	198	90	43	19.5			
2006	**Donated Eggs**	394	440	398	90.5	104	23.6			
2006	**Donated Embryos**	108	120	112	93.3	24	20			
2006	**Totals**	7092	8136	7501	92.2	1586	19.5			

17). Fresh Stimulated Own eggs (FSO) clinical pregnancy rate and outcomes for partner/donated sperm

Table 17 compares the outcome rates for all fresh, stimulated cycles against the source of sperm.

Note: This data excludes cycles where both a fresh and frozen (thawed) embryo were transferred in the same cycle.

Table 17

Year	Gamete source	Patients	Treatment Cycles	Embryo Transfers	Embryo Transfer Rate (%)	Clinical Pregnancies	Clinical Pregnancy Rate (%)	Live Births	Live Birth Rate (%)	Babies Born
1991	**Own Gametes**	4789	5023	3725	74.2	881	17.5	694	13.8	919
1991	**Donated Sperm**	457	471	419	89	117	24.8	92	19.5	134
1991	**Totals**	5239	5494	4144	75.4	998	18.2	786	14.3	1053
1992	**Own Gametes**	11265	13598	10161	74.7	2316	17	1771	13	2341
1992	**Donated Sperm**	1084	1258	1132	90	288	22.9	222	17.6	301
1992	**Totals**	12220	14856	11293	76	2604	17.5	1993	13.4	2642
1993	**Own Gametes**	13144	15859	12389	78.1	2833	17.9	2236	14.1	2939
1993	**Donated Sperm**	1428	1665	1523	91.5	445	26.7	374	22.5	537
1993	**Totals**	14452	17524	13912	79.4	3278	18.7	2610	14.9	3476
1994	**Own Gametes**	15396	18209	14485	79.5	3278	18	2625	14.4	3500
1994	**Donated Sperm**	1421	1634	1479	90.5	402	24.6	329	20.1	454
1994	**Totals**	16744	19843	15964	80.5	3680	18.5	2954	14.9	3954
1995	**Own Gametes**	18476	21935	17274	78.8	4110	18.7	3361	15.3	4466
1995	**Donated Sperm**	1323	1535	1376	89.6	361	23.5	310	20.2	417
1995	**Totals**	19704	23470	18650	79.5	4471	19	3671	15.6	4883

A long term analysis of the HFEA Register data (1991-2006)

Year	Gamete source	Patients	Treatment Cycles	Embryo Transfers	Embryo Transfer Rate (%)	Clinical Pregnancies	Clinical Pregnancy Rate (%)	Live Births	Live Birth Rate (%)	Babies Born
1996	**Own Gametes**	20579	24807	20118	81.1	5099	20.6	4238	17.1	5584
1996	**Donated Sperm**	1188	1386	1241	89.5	344	24.8	289	20.9	394
1996	**Totals**	21694	26193	21359	81.5	5443	20.8	4527	17.3	5978
1997	**Own Gametes**	21284	25359	20691	81.6	5192	20.5	4382	17.3	5724
1997	**Donated Sperm**	1057	1202	1053	87.6	339	28.2	288	24	392
1997	**Totals**	22284	26561	21744	81.9	5531	20.8	4670	17.6	6116
1998	**Own Gametes**	22285	26594	22449	84.4	5941	22.3	5022	18.9	6573
1998	**Donated Sperm**	954	1103	1027	93.1	330	29.9	269	24.4	378
1998	**Totals**	23190	27697	23476	84.8	6271	22.6	5291	19.1	6951
1999	**Own Gametes**	21972	25519	21938	86	5934	23.3	5228	20.5	6782
1999	**Donated Sperm**	900	1033	951	92.1	290	28.1	254	24.6	335
1999	**Totals**	22827	26552	22889	86.2	6224	23.4	5482	20.6	7117
2000	**Own Gametes**	21768	25714	22203	86.3	5959	23.2	5311	20.7	6867
2000	**Donated Sperm**	839	979	900	91.9	281	28.7	243	24.8	324
2000	**Totals**	22574	26693	23103	86.6	6240	23.4	5554	20.8	7191
2001	**Own Gametes**	22113	25993	22784	87.7	6409	24.7	5532	21.3	7068
2001	**Donated Sperm**	767	864	800	92.6	280	32.4	239	27.7	310
2001	**Totals**	22845	26857	23584	87.8	6689	24.9	5771	21.5	7378
2002	**Own Gametes**	22765	27008	23527	87.1	6819	25.2	6049	22.4	7606
2002	**Donated Sperm**	784	904	825	91.3	250	27.7	230	25.4	300
2002	**Totals**	23492	27912	24352	87.2	7069	25.3	6279	22.5	7906
2003	**Own Gametes**	23276	27569	23808	86.4	7070	25.6	6302	22.9	7893
2003	**Donated Sperm**	772	895	802	89.6	251	28	226	25.3	293
2003	**Totals**	24005	28464	24610	86.5	7321	25.7	6528	22.9	8186

A long term analysis of the HFEA Register data (1991-2006)

Year	Gamete source	Patients	Treatment Cycles	Embryo Transfers	Embryo Transfer Rate (%)	Clinical Pregnancies	Clinical Pregnancy Rate (%)	Live Births	Live Birth Rate (%)	Babies Born
2004	**Own Gametes**	24627	29485	25369	86	7321	24.8	6470	21.9	8022
2004	**Donated Sperm**	790	927	838	90.4	269	29	243	26.2	300
2004	**Totals**	25371	30412	26207	86.2	7590	25	6713	22.1	8322
2005	**Own Gametes**	25936	30604	26201	85.6	7879	25.7			
2005	**Donated Sperm**	873	1023	922	90.1	295	28.8			
2005	**Totals**	26769	31627	27123	85.8	8174	25.8			
2006	**Own Gametes**	27447	32001	27838	87	8694	27.2			
2006	**Donated Sperm**	752	878	806	91.8	261	29.7			
2006	**Totals**	28172	32879	28644	87.1	8955	27.2			

18). Fresh unstimulated (natural cycle) own egg clinical pregnancy rate and outcomes for partner/donated sperm.

Table 18 compares the outcome rates for all fresh, unstimulated cycles against the source of gametes/embryos.

Note: This data excludes cycles where both a fresh and frozen (thawed) embryo were transferred in the same cycle.

Table 18

Year	Gamete source	Patients	Treatment Cycles	Embryo Transfers	Embryo Transfer Rate (%)	Clinical Pregnancies	Clinical Pregnancy Rate (%)	Live Births	Live Birth Rate (%)	Babies Born
1991	**Own Gametes**	251	285	111	38.9	16	5.6	11	3.9	11
1991	**Donated Sperm**	15	15	8	++	0	++	0	++	0
1991	**Totals**	266	300	119	39.7	16	5.3	11	3.7	11
1992	**Own Gametes**	563	710	296	41.7	48	6.8	39	5.5	41
1992	**Donated Sperm**	26	29	13	++	3	++	3	++	3
1992	**Totals**	588	739	309	41.8	51	6.9	42	5.7	44
1993	**Own Gametes**	522	681	240	35.2	27	4	22	3.2	23
1993	**Donated Sperm**	38	48	11	++	0	++	0	++	0
1993	**Totals**	560	729	251	34.4	27	3.7	22	3	23
1994	**Own Gametes**	500	563	99	17.6	13	2.3	10	1.8	12
1994	**Donated Sperm**	23	28	9	++	2	++	0	++	0
1994	**Totals**	522	591	108	18.3	15	2.5	10	1.7	12
1995	**Own Gametes**	304	319	37	11.6	4	1.3	2	0.6	2
1995	**Donated Sperm**	20	23	5	++	0	++	0	++	0
1995	**Totals**	323	342	42	12.3	4	1.2	2	0.6	2
1996	**Own Gametes**	162	171	28	16.4	4	2.3	2	1.2	3
1996	**Donated Sperm**	13	13	2	++	0	++	0	++	0
1996	**Totals**	175	184	30	16.3	4	2.2	2	1.1	3

A long term analysis of the HFEA Register data (1991-2006)

Year	Gamete source	Patients	Treatment Cycles	Embryo Transfers	Embryo Transfer Rate (%)	Clinical Pregnancies	Clinical Pregnancy Rate (%)	Live Births	Live Birth Rate (%)	Babies Born
1997	**Own Gametes**	65	71	19	26.8	2	2.8	2	2.8	3
1997	**Donated Sperm**	3	3	1	++	1	++	1	++	1
1997	**Totals**	68	74	20	27	3	4.1	3	4.1	4
1998	**Own Gametes**	68	79	25	31.6	3	3.8	2	2.5	2
1998	**Donated Sperm**	0	0	0	0	0	0	0	0	0
1998	**Totals**	68	79	25	31.6	3	3.8	2	2.5	2
1999	**Own Gametes**	127	144	52	36.1	8	5.6	6	4.2	8
1999	**Donated Sperm**	4	4	1	++	0	++	0	++	0
1999	**Totals**	131	148	53	35.8	8	5.4	6	4.1	8
2000	**Own Gametes**	193	213	78	36.6	20	9.4	15	7	17
2000	**Donated Sperm**	3	3	2	++	0	++	0	++	0
2000	**Totals**	196	216	80	37	20	9.3	15	6.9	17
2001	**Own Gametes**	220	265	94	35.5	14	5.3	9	3.4	11
2001	**Donated Sperm**	5	5	3	++	0	++	0	++	0
2001	**Totals**	225	270	97	35.9	14	5.2	9	3.3	11
2002	**Own Gametes**	221	241	71	29.5	10	4.1	8	3.3	8
2002	**Donated Sperm**	6	6	5	++	1	++	0	++	0
2002	**Totals**	227	247	76	30.8	11	4.5	8	3.2	8
2003	**Own Gametes**	124	137	41	29.9	9	6.6	8	5.8	9
2003	**Donated Sperm**	1	1	1	++	0	++	0	++	0
2003	**Totals**	125	138	42	30.4	9	6.5	8	5.8	9
2004	**Own Gametes**	188	199	72	36.2	7	3.5	5	2.5	6
2004	**Donated Sperm**	4	4	2	++	1	++	1	++	1
2004	**Totals**	191	203	74	36.5	8	3.9	6	3	7

A long term analysis of the HFEA Register data (1991-2006)

Year	Gamete source	Patients	Treatment Cycles	Embryo Transfers	Embryo Transfer Rate (%)	Clinical Pregnancies	Clinical Pregnancy Rate (%)	Live Births	Live Birth Rate (%)	Babies Born
2005	**Own Gametes**	336	370	125	33.8	30	8.1			
2005	**Donated Sperm**	3	3	2	++	0	++			
2005	**Totals**	339	373	127	34	30	8			
2006	**Own Gametes**	157	167	60	35.9	6	3.6			
2006	**Donated Sperm**	1	1	1	++	1	++			
2006	**Totals**	158	168	61	36.3	7	4.2			

19). Use of donated sperm in IVF (excluding micromanipulation) combined fresh and frozen cycles

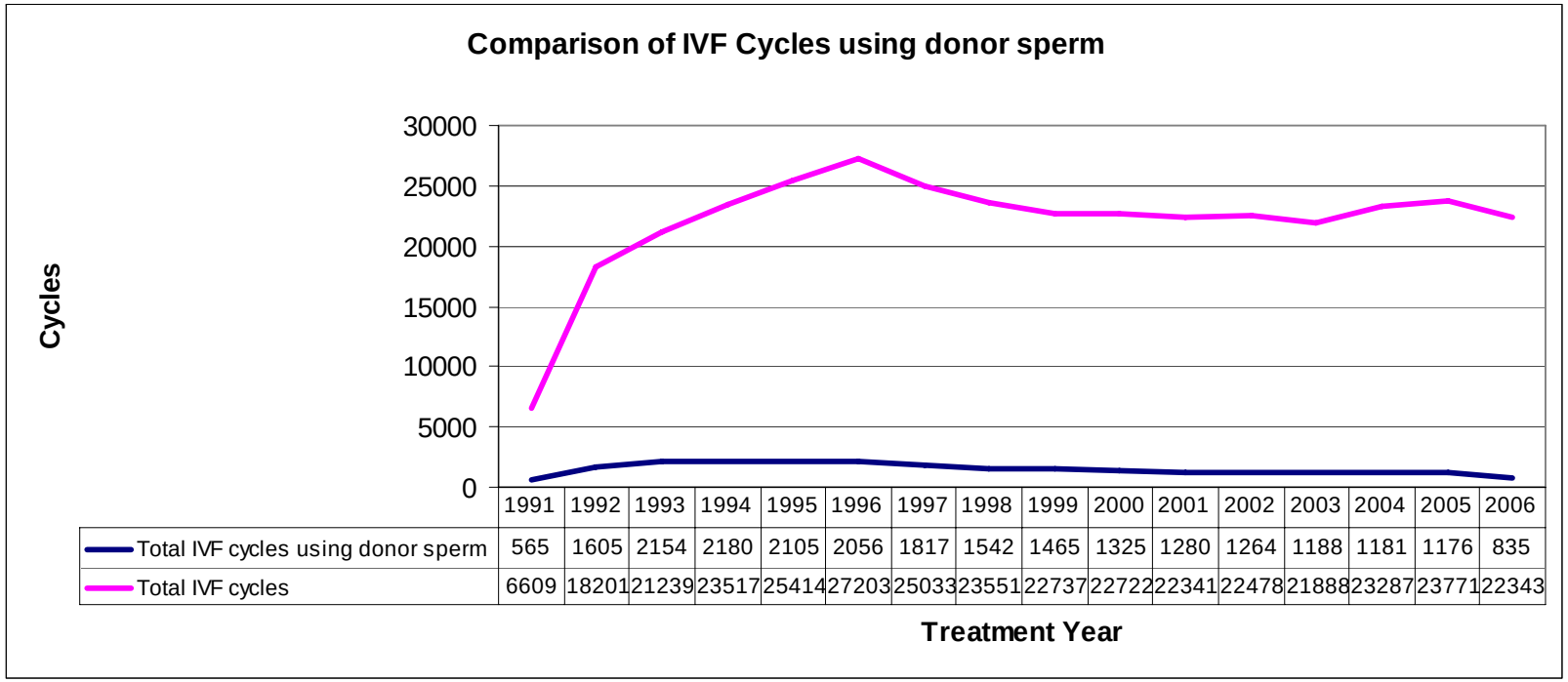
Table 19a details the number of fresh and frozen IVF cycles involving the use of donated sperm.

Table 19a

Year	% IVF cycles using donated sperm	FSO cycles donor sperm	Natural cycles donor sperm	Fresh donor embryos	Frozen cycles own eggs donor sperm	Frozen cycles donor embryos	Fresh and Frozen embryo cycles using donor sperm	Cycles using donor sperm (fresh / frozen status unknown)	Total IVF cycles using donor sperm	Total IVF cycles
1991	8.5	469	15	16	49	11	5	0	565	6609
1992	8.8	1252	29	40	217	48	18	1	1605	18201
1993	10.1	1657	48	82	297	63	7	0	2154	21239
1994	9.3	1634	28	118	294	104	2	0	2180	23517
1995	8.3	1527	23	92	356	101	6	0	2105	25414
1996	7.6	1363	13	103	403	167	7	0	2056	27203
1997	7.3	1150	3	100	375	189	0	0	1817	25033
1998	6.5	1021	0	94	277	150	0	0	1542	23551
1999	6.4	929	4	75	279	175	1	2	1465	22737
2000	5.8	873	2	72	217	160	0	1	1325	22722
2001	5.7	781	4	93	244	156	1	1	1280	22341
2002	5.6	814	6	99	206	139	0	0	1264	22478
2003	5.4	802	1	73	184	125	1	2	1188	21888
2004	5.1	798	2	67	193	121	0	0	1181	23287
2005	4.9	807	1	65	181	120	1	1	1176	23771
2006	3.7	525	1	45	175	84	0	5	835	22343

The use of donated sperm within conventional IVF has always represented a small proportion of the total IVF activities, and has continually declined over the years as shown in figure 19b.

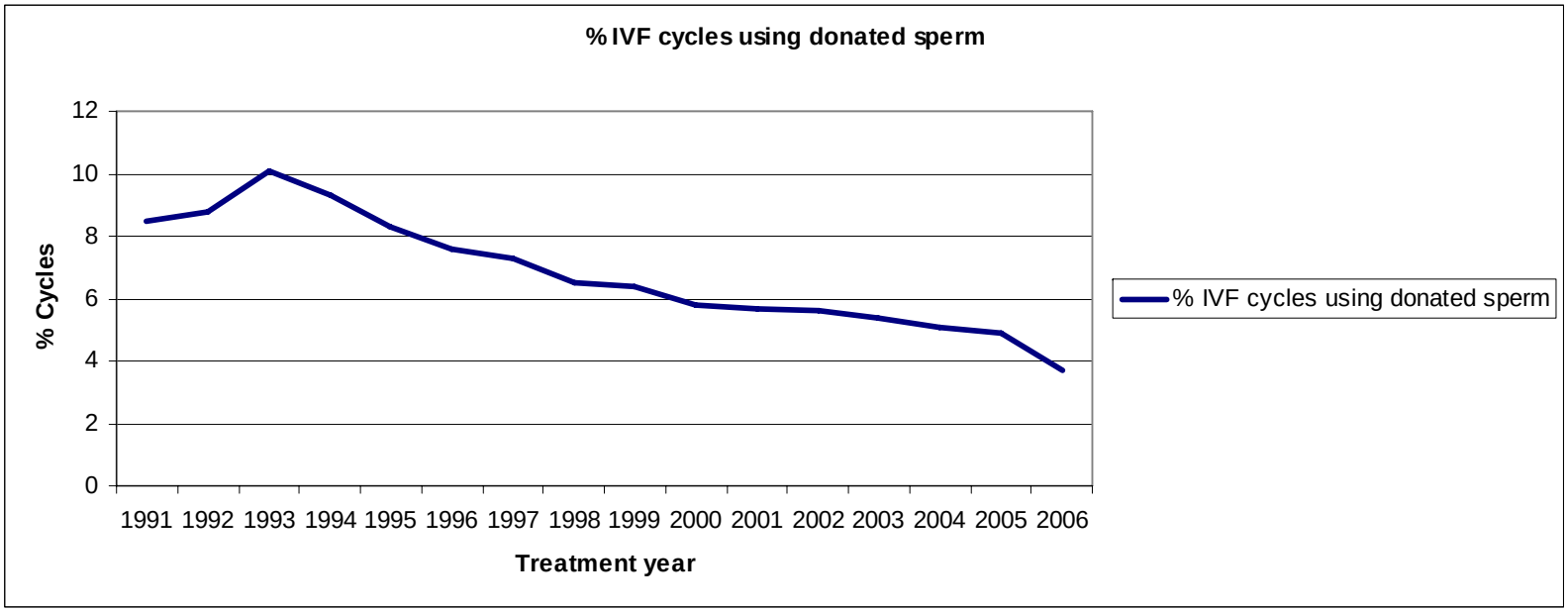
Figure 19b



	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Total IVF cycles using donor sperm	565	1605	2154	2180	2105	2056	1817	1542	1465	1325	1280	1264	1188	1181	1176	835
Total IVF cycles	6609	18201	21239	23517	25414	27203	25033	23551	22737	22722	22341	22478	21888	23287	23771	22343

The decline in use of donated sperm within all conventional IVF treatment cycles is best shown in figure 19c.

Figure 19c



20). Clinical pregnancy rate and outcomes for various donated eggs/embryos

Table 20 compares the outcome rates for all fresh cycles using donated eggs.

Note: This data excludes cycles where both a fresh and frozen (thawed) embryo were transferred in the same cycle.

Table 20

Year	Gamete source	Patients	Treatment Cycles	Embryo Transfers	Embryo Transfer Rate (%)	Clinical Pregnancies	Clinical Pregnancy Rate (%)	Live Births	Live Birth Rate (%)	Babies Born
1991	**Donated Eggs**	98	100	91	91	28	28	18	18	22
1991	**Donated Embryos**	16	16	12	++	6	++	5	++	8
1991	**Totals**	114	116	103	88.8	34	29.3	23	19.8	30
1992	**Donated Eggs**	320	353	319	90.4	86	24.4	72	20.4	102
1992	**Donated Embryos**	37	41	34	++	13	++	7	++	8
1992	**Totals**	354	394	353	89.6	99	25.1	79	20.1	110
1993	**Donated Eggs**	432	482	403	83.6	131	27.2	108	22.4	139
1993	**Donated Embryos**	72	84	70	83.3	25	29.8	17	20.2	23
1993	**Totals**	503	566	473	83.6	156	27.6	125	22.1	162
1994	**Donated Eggs**	672	771	673	87.3	197	25.6	148	19.2	201
1994	**Donated Embryos**	106	119	101	84.9	39	32.8	32	26.9	45
1994	**Totals**	773	890	774	87	236	26.5	180	20.2	246
1995	**Donated Eggs**	777	841	732	87	207	24.6	161	19.1	213
1995	**Donated Embryos**	89	95	84	88.4	27	28.4	22	23.2	31
1995	**Totals**	864	936	816	87.2	234	25	183	19.6	244
1996	**Donated Eggs**	862	931	835	89.7	267	28.7	209	22.4	285
1996	**Donated Embryos**	105	114	100	87.7	33	28.9	26	22.8	37
1996	**Totals**	965	1045	935	89.5	300	28.7	235	22.5	322

A long term analysis of the HFEA Register data (1991-2006)

Year	gamete source	Patients	Treatment Cycles	Embryo Transfers	Embryo Transfer Rate (%)	Clinical Pregnancies	Clinical Pregnancy Rate (%)	Live Births	Live Birth Rate (%)	Babies Born
1997	**Donated Eggs**	962	1050	958	91.2	294	28	236	22.5	322
1997	**Donated Embryos**	111	124	112	90.3	28	22.6	24	19.4	34
1997	**Totals**	1072	1174	1070	91.1	322	27.4	260	22.1	356
1998	**Donated Eggs**	1102	1177	1085	92.2	307	26.1	257	21.8	349
1998	**Donated Embryos**	116	122	116	95.1	39	32	34	27.9	44
1998	**Totals**	1218	1299	1201	92.5	346	26.6	291	22.4	393
1999	**Donated Eggs**	1306	1411	1309	92.8	378	26.8	318	22.5	413
1999	**Donated Embryos**	88	97	87	89.7	26	26.8	24	24.7	31
1999	**Totals**	1391	1508	1396	92.6	404	26.8	342	22.7	444
2000	**Donated Eggs**	1480	1588	1485	93.5	456	28.7	388	24.4	516
2000	**Donated Embryos**	87	93	87	93.5	30	32.3	24	25.8	28
2000	**Totals**	1566	1681	1572	93.5	486	28.9	412	24.5	544
2001	**Donated Eggs**	1477	1558	1456	93.5	449	28.8	372	23.9	479
2001	**Donated Embryos**	114	126	111	88.1	30	23.8	21	16.7	33
2001	**Totals**	1591	1684	1567	93.1	479	28.4	393	23.3	512
2002	**Donated Eggs**	1421	1496	1399	93.5	438	29.3	389	26	520
2002	**Donated Embryos**	117	125	115	92	41	32.8	34	27.2	46
2002	**Totals**	1538	1621	1514	93.4	479	29.5	423	26.1	566
2003	**Donated Eggs**	1315	1381	1304	94.4	417	30.2	368	26.6	469
2003	**Donated Embryos**	83	88	80	90.9	22	25	20	22.7	25
2003	**Totals**	1398	1469	1384	94.2	439	29.9	388	26.4	494
2004	**Donated Eggs**	1391	1462	1350	92.3	438	30	375	25.6	480
2004	**Donated Embryos**	81	89	82	92.1	19	21.3	17	19.1	20
2004	**Totals**	1470	1551	1432	92.3	457	29.5	392	25.3	500

A long term analysis of the HFEA Register data (1991-2006)

Year	Gamete source	Patients	Treatment Cycles	Embryo Transfers	Embryo Transfer Rate (%)	Clinical Pregnancies	Clinical Pregnancy Rate (%)	Live Births	Live Birth Rate (%)	Babies Born
2005	**Donated Eggs**	1274	1332	1231	92.4	417	31.3			
2005	**Donated Embryos**	92	97	91	93.8	28	28.9			
2005	**Totals**	1364	1429	1322	92.5	445	31.1			
2006	**Donated Eggs**	1111	1179	1091	92.5	379	32.1			
2006	**Donated Embryos**	89	96	89	92.7	38	39.6			
2006	**Totals**	1198	1275	1180	92.5	417	32.7			

21). Live birth and adverse outcome comparison for micromanipulation (ICSI & SUZI) only cycles using fresh and frozen eggs/embryos from all sources

Table 21 details the outcomes for treatments involving only micromanipulation.

Table 21

Year	Clinics	Patients	Cycles	Embryo transfers	Live Births	Live birth bate	Miscarriages	Termina-tions	Reduct-ions	Ectopics /Hetero-topics	Unknown Outcomes	Missing outcome forms	Babies born	Still Birth and Neonatal Deaths	Still Birth and Neonatal Deaths per thousand birth events
1991	6	32	33	23	1	++	-	-	-	-	-	-	1	-	-
1992	10	120	128	101	8	6.3	1	-	-	1	-	1	11	-	-
1993	19	504	578	481	57	9.9	13	1	-	-	11	1	74	1	17.5
1994	21	1120	1284	1179	200	15.6	28	4	-	6	2	5	252	5	25
1995	40	3351	3822	3643	791	20.7	141	10	-	14	9	7	1053	16	20.2
1996	43	5392	6175	5828	1287	20.8	216	7	-	12	25	4	1686	24	18.6
1997	54	7680	8917	8358	1851	20.8	299	29	-	24	34	21	2431	31	16.7
1998	65	9656	11906	11306	2448	20.6	373	38	-	46	29	29	3146	52	21.2
1999	70	10198	12077	11369	2634	21.8	371	19	8	24	33	64	3361	64	24.3
2000	70	10468	12728	11910	2721	21.4	332	20	10	11	33	72	3482	55	20.2
2001	71	11404	13861	13003	3009	21.7	367	34	6	5	42	154	3805	65	21.6
2002	75	12077	14922	13858	3355	22.5	436	26	9	13	41	26	4153	49	14.6
2003	72	12588	15523	14410	3624	23.3	467	32	7	5	37	19	4480	53	14.6
2004	73	13500	16738	15514	3745	22.4	492	33	6	7	48	17	4598	52	13.9
2005	71	14600	17788	16536											
2006	70	16363	19991	18723											

22). Live birth and adverse outcome comparison for mixed IVF & micromanipulation cycles using fresh and frozen eggs/embryos from all sources

Table 22 details the outcome of treatment cycles involving IVF, ICSI and SUZI.

Table 22

Year	Clinics	Patients	Cycles	Embryo transfers	Live Births	Live birth bate	Miscarr iages	Termina-tions	Reduct -ions	Ectopics / Hetero-topics	Unknown Outcomes	Missing outcome forms	Babies born	Still Birth and Neo-natal Deaths	Still Birth and Neo-natal Deaths per thousand birth events
1991	4	8	8	0	-	++	-	-	-	-	-	-	-	-	-
1992	4	9	9	0	-	++	-	-	-	-	-	-	-	-	-
1993	8	49	50	0	-	++	-	-	-	-	-	-	-	-	-
1994	12	66	66	0	-	++	-	-	-	-	-	-	-	-	-
1995	22	89	90	0	-	++	-	-	-	-	-	-	-	-	-
1996	22	82	84	0	-	++	-	-	-	-	-	-	-	-	-
1997	14	47	48	0	-	++	-	-	-	-	-	-	-	-	-
1998	15	21	21	0	-	++	-	-	-	-	-	-	-	-	-
1999	21	30	30	10	2	++	1	-	-	1	-	-	3	-	-
2000	27	58	59	40	7	11.9	1	-	-	-	-	-	8	-	-
2001	32	90	90	63	14	15.6	3	-	-	-	2	-	18	-	-
2002	35	107	107	83	22	20.6	1	-	-	-	-	-	31	1	-
2003	34	156	159	121	48	30.2	4	-	-	-	-	-	63	1	-
2004	37	137	139	115	41	29.5	6	-	-	-	-	1	48	1	-
2005	36	171	173	139											
2006	46	198	203	159											

23). Live birth and adverse outcome comparison for IVF only cycles using fresh and frozen eggs/embryos from all sources

Table 23 details the outcomes for treatments involving IVF only.

Table 23

Year	Clinics	Patients	Cycles	Embryo transfers	Live Births	Live birth bate	Misc-arriages	Termin-ations	Reduct -ions	Ectopics / Hetero-topics	Unknown Outcomes	Missing outcome forms	Babies born	Still Birth and Neonatal Deaths	Still Birth and Neonatal Deaths per thousand birth events
1991	66	6146	6609	5067	929	14.1	187	5	-	19	65	6	1226	20	21.5
1992	68	13959	18201	14170	2373	13	478	19	-	71	127	88	3104	74	31.2
1993	65	16137	21239	17163	3092	14.6	498	29	-	124	132	44	4051	65	21
1994	69	18304	23517	19107	3351	14.2	598	30	-	136	104	41	4435	104	31
1995	74	19895	25414	20275	3610	14.2	646	42	-	129	61	33	4738	88	24.4
1996	73	20914	27203	22069	4179	15.4	709	64	-	132	84	34	5467	98	23.5
1997	76	19734	25033	19956	3782	15.1	616	50	-	113	72	67	4896	90	23.8
1998	75	18619	23551	19158	3903	16.6	607	53	-	138	39	80	5109	86	22
1999	78	18532	22737	18852	4032	17.7	623	37	14	67	49	126	5193	79	19.6
2000	75	18196	22722	19031	4168	18.3	569	51	19	36	48	148	5333	64	15.4
2001	77	17953	22341	18937	4179	18.7	508	40	16	35	59	246	5294	79	18.9
2002	77	17816	22478	18846	4417	19.7	596	28	12	19	65	42	5579	75	17
2003	73	17515	21888	18162	4439	20.3	589	47	12	29	53	32	5532	65	14.6
2004	74	18463	23287	19219	4494	19.3	656	44	9	27	90	12	5539	78	17.4
2005	72	19166	23771	19372											
2006	70	18183	22343	18581											

24). Live birth and adverse outcome comparison for all IVF and micromanipulation cycles using fresh and frozen eggs/embryos from all sources

Table 24 details the outcomes for treatment cycles including IVF, ICSI and SUZI.

Table 24

Year	Clinics	Patients	Cycles	Embryo transfers	Live Births	Live birth bate	Miscarriages	Termina-tions	Reduct-ions	Ectopics / Hetero-topics	Unknown Outcomes	Missing outcome forms	Babies born	Still Birth and Neonatal Deaths	Still Birth and Neonatal Deaths per thousand birth events
1991	66	6184	6650	5090	930	14	187	5	-	19	65	6	1227	20	21.5
1992	68	14061	18338	14271	2381	13	479	19	-	72	127	89	3115	74	31.1
1993	65	16566	21867	17644	3149	14.4	511	30	-	124	143	45	4125	66	21
1994	69	19296	24867	20286	3551	14.3	626	34	-	142	106	46	4687	109	30.7
1995	75	22648	29326	23918	4401	15	787	52	-	143	70	40	5791	104	23.6
1996	74	25353	33462	27897	5466	16.3	925	71	-	144	109	38	7153	122	22.3
1997	76	26283	33998	28314	5633	16.6	915	79	-	137	106	88	7327	121	21.5
1998	76	27225	35478	30464	6351	17.9	980	91	-	184	68	109	8255	138	21.7
1999	79	27776	34844	30231	6668	19.1	995	56	22	92	82	190	8557	143	21.4
2000	75	27545	35509	30981	6896	19.4	902	71	29	47	81	220	8823	119	17.3
2001	77	28314	36292	32003	7202	19.8	878	74	22	40	103	400	9117	144	20
2002	78	28980	37507	32787	7794	20.8	1033	54	21	32	106	68	9763	125	16
2003	73	29339	37570	32693	8111	21.6	1060	79	19	34	90	51	10075	119	14.7
2004	74	30861	40164	34848	8280	20.6	1154	77	15	34	138	30	10185	131	15.8
2005	72	32558	41732	36047											
2006	70	33713	42537	37463											

25). Egg & Embryo usage

Table 25 details the number of cycles and gametes/embryos used.

Note: The following data was not routinely collected before 01/04/1999;
Eggs donated for treatment
Eggs stored
Eggs donated for research
Embryos thawed

Where such data appears before 1999 this is has been supplied for previously unreported cycles submitted via the Historic Audit Project and by late reporting of cycles on forms issued from 01/04/1999. Thus these data are extremely under-represented in the years before 01/04/1999. 'Embryos used' should equal 'Embryos created' plus 'Embryos thawed' but this is only achieved in those categories with relatively small numbers of cycles.

The total number of treatment cycles is given by adding the 'Treatment' and 'Egg share' categories.

Table 25a

Year	Reason for cycle	cycles	Eggs collected	Eggs donated for treat-ment	Eggs stored	Eggs donated for research	Eggs mixed with sperm	Emb-ryos created	Emb-ryos thawed	Embryos trans-ferred	Emb-ryos stored for patient	Embryos donated for others	Emb-ryos donated for research	Embryos dis-carded	Embryos used
1991	**Treatment**	6650	46150	0	4	0	45394	26696	0	12587	4919	61	2497	8122	28186
1992	**Treatment**	18338	127095	0	0	0	125046	76068	0	34771	15910	52	7047	23030	80810
1993	**Treatment**	21867	158134	0	0	0	155989	93481	0	43279	19726	56	9522	27470	100053
1994	**Treatment**	24867	188804	0	0	0	184853	106673	7	49740	23596	29	8497	32165	114027
1995	**Donation**	2	12	12	0	0	0	0	3	0	0	2	0	0	2
1995	**Treatment**	29326	226069	0	5	0	217764	126216	6	58465	32452	39	7705	37263	135924
1996	**Donation**	2	28	28	0	0	0	0	0	0	0	0	0	0	0
1996	**Treatment**	33462	257087	0	0	0	241995	148895	11	67727	39318	76	6479	47768	161368

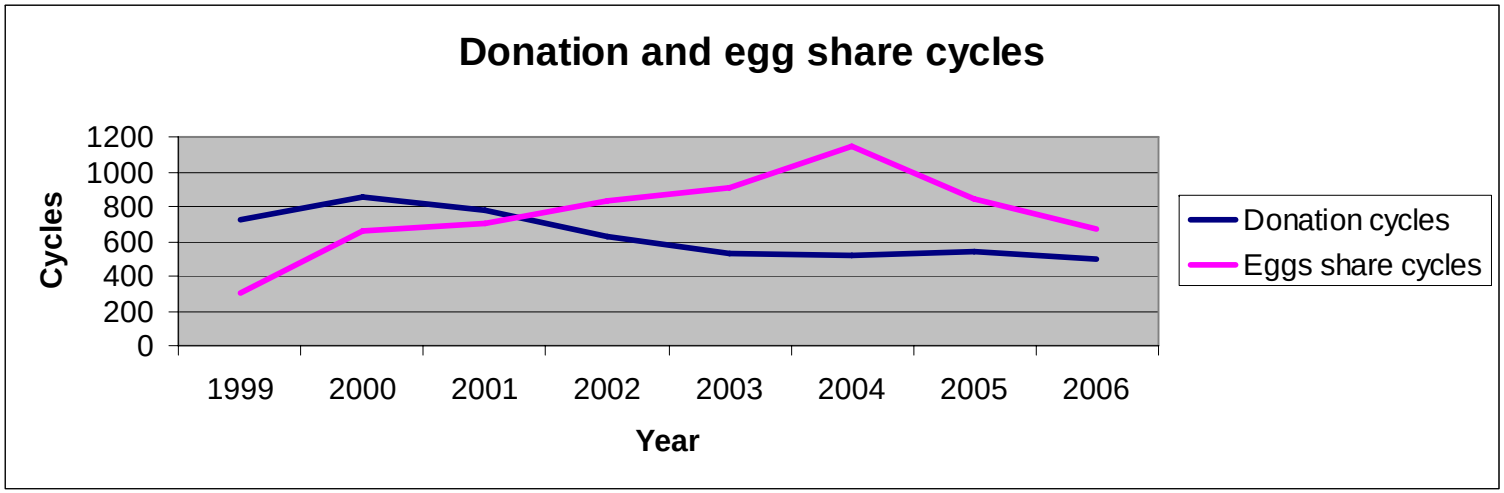
Year	Reason for cycle	cycles	Eggs collected	Eggs donated for treat-ment	Eggs stored	Eggs donated for research	Eggs mixed with sperm	Emb-ryos created	Emb-ryos thawed	Embryos trans-ferred	Emb-ryos stored for patient	Embryos donated for others	Emb-ryos donated for research	Embryos dis-carded	Embryos used
1997	**Donation**	2	18	18	0	0	0	0	0	0	0	0	0	0	0
1997	**Egg share**	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1997	**Embryo storage**	1	24	0	0	0	19	12	0	0	12	0	0	5	17
1997	**Treatment**	33997	261723	0	0	0	242113	145999	0	67674	37095	44	5712	47972	158497
1997	**Undefined**	1	7	7	0	0	0	0	0	0	0	0	0	0	0
1998	**Donation**	7	87	87	0	0	0	0	0	0	0	0	0	0	0
1998	**Treatment**	35478	275374	0	0	0	251186	162784	44	71646	42461	87	4879	57003	176076
1998	**Undefined**	5	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	**Donation**	723	7699	7486	0	7	86	59	0	0	12	41	0	7	60
1999	**Egg share**	300	4134	2120	23	0	1899	1314	8	693	313	0	0	424	1430
1999	**Embryo storage**	55	647	4	0	0	622	448	0	0	384	13	0	111	508
1999	**Treatment**	34544	268627	97	67	1099	245309	162537	19246	70169	42509	317	5087	76559	194641
1999	**Undefined**	22	96	27	0	0	67	46	0	0	37	0	0	9	46
2000	**Donation**	854	9892	9676	14	0	88	66	3	0	10	38	0	18	66
2000	**Egg and embryo storage**	2	40	0	7	0	28	15	0	0	15	0	0	0	15
2000	**Egg share**	664	9849	5057	0	9	4524	3121	21	1418	753	0	9	1085	3265
2000	**Egg storage**	10	159	0	113	0	27	21	0	0	21	0	0	6	27
2000	**Embryo storage**	78	950	0	0	0	889	606	0	0	497	11	1	245	754
2000	**Research**	2	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	**Treatment**	34845	272978	125	74	1597	249246	167402	26495	68975	46686	312	5292	84245	205510
2000	**Undefined**	27	51	6	8	0	36	15	0	0	12	0	0	8	20

Year	Reason for cycle	cycles	Eggs collected	Eggs donated for treat-ment	Eggs stored	Eggs donated for research	Eggs mixed with sperm	Emb-ryos created	Emb-ryos thawed	Embryos trans-ferred	Emb-ryos stored for patient	Embryos donated for others	Emb-ryos donated for research	Embryos dis-carded	Embryos used
2001	**Donation**	782	9313	9082	7	0	137	87	0	0	19	43	0	29	91
2001	**Egg share**	706	10448	5288	11	0	4882	3394	7	1440	666	0	1	1344	3451
2001	**Egg storage**	15	195	0	188	0	0	0	0	0	0	0	0	0	0
2001	**Embryo storage**	72	732	0	0	0	683	476	0	0	418	0	0	94	512
2001	**Research**	8	35	0	0	33	2	2	0	0	0	0	2	0	2
2001	**Treatment**	35586	275611	166	83	1983	252838	173834	28239	68578	47965	279	4189	86346	207357
2001	**Undefined**	20	38	9	0	0	29	27	0	0	9	0	0	18	27
2002	**Donation**	624	7059	6857	0	0	72	48	1	0	14	18	0	18	50
2002	**Egg share**	829	11229	5530	0	0	5384	3784	9	1543	690	0	10	1596	3839
2002	**Egg storage**	15	172	0	149	0	0	0	0	0	0	0	0	0	0
2002	**Embryo storage**	91	918	0	15	0	869	676	0	0	583	8	0	87	678
2002	**Research**	2	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	**Treatment**	36678	274748	103	244	1627	251446	175424	29712	66313	44563	160	4516	94816	210368
2002	**Undefined**	21	75	68	7	0	0	0	0	0	0	0	0	0	0
2003	**Donation**	533	6095	5949	0	0	60	40	0	0	13	23	0	4	40
2003	**Egg and embryo storage**	1	16	0	5	0	11	6	0	0	6	0	0	0	6
2003	**Egg share**	910	13276	6122	4	3	6499	4571	14	1650	893	0	202	1856	4601
2003	**Egg storage**	23	271	0	239	0	0	0	0	0	0	0	0	0	0
2003	**Embryo storage**	143	1559	0	16	10	1446	917	14	0	809	0	0	109	918
2003	**Research**	1	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	**Treatment**	36660	278992	8	67	687	255974	175560	28076	64609	41931	111	3530	94297	204478
2003	**Undefined**	5	32	13	4	0	7	5	0	0	0	0	5	0	5

Year	Reason for cycle	cycles	Eggs collected	Eggs donated for treat-ment	Eggs stored	Eggs donated for research	Eggs mixed with sperm	Emb-ryos created	Emb-ryos thawed	Embryos trans-ferred	Emb-ryos stored for patient	Embryos donated for others	Emb-ryos donated for research	Embryos dis-carded	Embryos used
2004	Donation	521	5970	5746	0	10	149	83	0	0	39	23	0	24	86
2004	Egg and embryo storage	1	37	0	19	0	16	12	0	0	10	0	0	2	12
2004	Egg share	1142	16595	7078	7	0	8502	5867	7	2057	1119	0	338	2342	5856
2004	Egg storage	20	253	0	223	0	3	1	0	0	1	0	0	0	1
2004	Embryo storage	152	1487	0	0	0	1397	941	2	0	839	2	0	101	942
2004	Treatment	39022	292859	27	113	445	266640	179856	28187	65566	42741	141	3311	95919	207678
2005	Donation	538	5888	5747	11	0	83	54	0	0	31	14	0	9	54
2005	Egg and embryo storage	1	18	0	6	0	6	3	0	0	3	0	0	0	3
2005	Egg share	844	12382	5993	0	0	5821	4094	0	1473	620	0	110	1901	4104
2005	Egg storage	26	317	0	287	0	0	0	0	0	0	0	0	0	0
2005	Embryo storage	150	1522	0	19	0	1437	959	0	0	909	2	0	87	998
2005	Research	3	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	Treatment	40888	306883	8	179	667	278948	186602	28385	68083	43892	230	4338	97634	214177
2005	Undefined	20	86	6	9	0	62	36	0	0	0	0	18	6	24
2006	Donation	497	5433	5210	10	8	152	89	0	0	33	40	0	20	93
2006	Egg share	674	9750	4831	15	0	4431	3166	7	1158	565	0	32	1430	3185
2006	Egg storage	50	514	0	432	0	0	0	0	0	0	0	0	0	0
2006	Embryo storage	127	1133	28	6	0	1059	693	0	0	649	2	0	38	689
2006	Treatment	41863	314912	280	148	825	283565	194600	26859	70382	46526	182	3187	99307	219584
2006	Undefined	17	124	32	12	0	72	53	0	0	0	0	44	9	53

Figure 25b below shows the activity levels for donation and separately eggs share cycles since 1999. The use of donated eggs remains a small proportion of activity compared to all IVF & ICSI treatments.

Figure 25b



26). PGD PGS activity

Table 26 details the reported PGD and latterly PGS cycles together with their resulting live births. Please note that PGS cycles have only been separately identified within the Register (and verified by the clinics concerned) for 2004 treatment data onwards. Please also note that the data for 2001 treatments has been supplied by ESHRE PGD Consortium.

Table 26

Year	PGD patients	PGD cycles	PGD live births	PGD live birth rate	PGD live babies	PGS patients	PGS cycles	PGS live births	PGS live birth rate	PGS live babies	Total PGD/PGS patients	Total PGD/PGS cycles	Total PGD/PGS live births	Total PGD/PGS live birth rate	Total PGD/PGS live babies
1999											8	8	3	++	3
2000											63	65	9	13.8	12
2001												59	4		4
2002											117	125	22	17.6	28
2003											210	236	50	21.2	62
2004	84	95	17	17.9	19	164	190	25	13.2	28	246	285	42	14.7	47

27). DI live birth and adverse outcome data

Table 27a details the outcome types for **stimulated** donor insemination treatment cycles

Table 27a

Year	Clinics	Patients	Cycles	Live Births	Live birth rate	Miscarriages	Terminations	Reductions	Ectopics / Heterotopics	Unknown Outcomes	Missing outcome forms	Babies born	Still Birth and Neonatal Deaths	Still Birth and Neonatal Deaths per thousand birth events
1991	83	1884	3554	186	5.2	29	2	-	2	20	5	214	6	32.3
1992	95	3607	10030	528	5.3	113	2	-	9	22	33	612	10	18.9
1993	95	3707	9837	674	6.9	101	4	-	9	34	21	789	4	5.9
1994	99	3575	8833	724	8.2	105	3	-	9	23	8	848	8	11
1995	100	3160	7519	709	9.4	121	8	-	10	19	16	848	12	16.9
1996	103	2792	6032	631	10.5	93	7	-	5	15	10	730	11	17.4
1997	104	2677	5768	569	9.9	75	11	-	12	13	28	651	5	8.8
1998	103	2431	5014	533	10.6	77	11	-	9	11	26	605	11	20.6
1999	107	2152	4193	507	12.1	45	10	5	4	6	32	571	6	11.8
2000	102	1756	3428	352	10.3	42	5	3	2	5	47	396	8	22.7
2001	94	1525	2903	330	11.4	47	3	2	1	6	34	368	7	21.2
2002	93	1514	2853	346	12.1	40	6	1	2	10	15	395	2	5.8
2003	85	1522	2808	335	11.9	36	1	2	1	5	4	368	4	11.9
2004	83	1351	2487	277	11.1	36	3	3	1	11	2	313	5	18.1
2005	76	1259	2271											
2006	76	1058	1746											

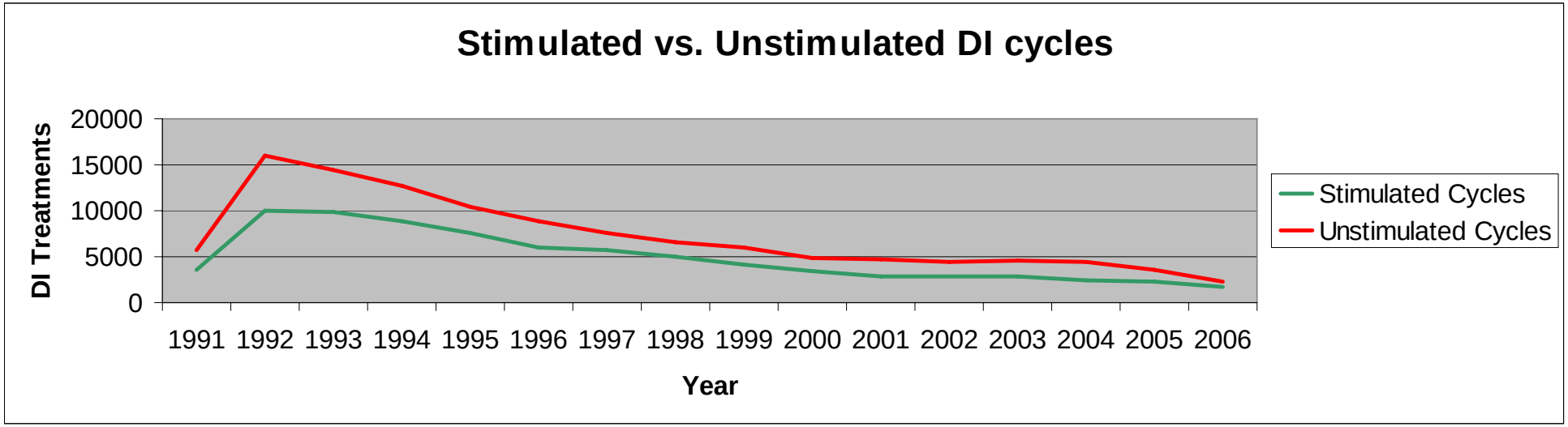
Table 27b details the outcome types for **unstimulated** donor insemination treatment cycles

Table 27b

Year	Clinics	Patients	Cycles	Live Births	Live birth rate	Miscar riages	Termina tions	Reduc tions	Ectopics / Heterotopics	Unknown Outcomes	Missing outcome forms	Babies born	Still Birth and Neonatal Deaths	Still Birth and Neonatal Deaths per thousand birth events
1991	76	2756	5749	300	5.2	48	4	-	3	24	8	304	1	3.3
1992	87	5202	16048	828	5.2	143	3	-	6	41	16	845	9	10.9
1993	89	5037	14393	885	6.1	128	6	-	12	26	21	913	9	10.2
1994	91	4684	12651	991	7.8	131	4	-	11	28	34	1006	5	5
1995	95	3960	10482	874	8.3	125	7	-	8	8	19	892	7	8
1996	96	3509	8881	819	9.2	136	5	-	4	15	8	835	7	8.5
1997	94	3078	7537	705	9.4	76	6	-	3	10	21	719	8	11.3
1998	96	2683	6565	627	9.6	82	8	-	3	11	8	637	7	11.2
1999	97	2600	6014	583	9.7	65	3	-	1	12	36	599	-	-
2000	96	2213	4926	516	10.5	38	3	-	1	7	31	523	2	3.9
2001	93	2050	4677	466	10	36	4	-	-	3	31	474	3	6.4
2002	87	2022	4470	477	10.7	47	3	-	1	9	6	491	2	4.2
2003	80	1993	4514	445	9.9	42	2	-	1	14	9	454	3	6.7
2004	82	2007	4406	431	9.8	32	3	-	1	11	2	438	1	2.3
2005	77	1710	3578											
2006	72	1214	2325											

Figure 27c below compares the level of stimulated and unstimulated (natural cycles) undertaken from tables 27a and 27b.

Figure 27c



28). DI outcome rates by patient age

Table 28 details the live births and live birth rates for donor insemination by age group. Table 26a is for patients aged 39 or under. Table 26b is for patients aged 40 and over.

Table 28a

Year	DI	Under 25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
1991	Treatment cycles	356	294	430	527	603	685	784	821	770	744	678	610	531	453	260	226
1991	Live births	26	19	29	36	38	39	42	48	48	38	30	25	25	17	10	9
1991	Live birth rate	7.3	6.5	6.7	6.8	6.3	5.7	5.4	5.8	6.2	5.1	4.4	4.1	4.7	3.8	3.8	4
1992	Treatment cycles	1147	818	1062	1415	1921	1923	2090	2222	2048	2137	1767	1634	1526	1137	994	638
1992	Live births	72	55	76	89	111	112	117	124	107	123	97	74	74	36	39	14
1992	Live birth rate	6.3	6.7	7.2	6.3	5.8	5.8	5.6	5.6	5.2	5.8	5.5	4.5	4.8	3.2	3.9	2.2
1993	Treatment cycles	1034	664	938	1283	1653	1958	1968	2029	1901	1651	1902	1556	1375	1162	835	745
1993	Live births	81	48	71	103	130	157	125	167	134	125	109	89	66	65	31	30
1993	Live birth rate	7.8	7.2	7.6	8	7.9	8	6.4	8.2	7	7.6	5.7	5.7	4.8	5.6	3.7	4
1994	Treatment cycles	928	628	825	1090	1319	1617	1744	1854	1778	1723	1494	1315	1155	922	925	676
1994	Live births	93	54	88	103	120	153	162	173	172	120	131	107	68	60	43	35
1994	Live birth rate	10	8.6	10.7	9.4	9.1	9.5	9.3	9.3	9.7	7	8.8	8.1	5.9	6.5	4.6	5.2
1995	Treatment cycles	787	449	612	778	1071	1287	1419	1541	1503	1451	1405	1103	1150	906	758	586
1995	Live births	84	53	65	84	123	154	126	145	155	117	136	97	77	64	42	31
1995	Live birth rate	10.7	11.8	10.6	10.8	11.5	12	8.9	9.4	10.3	8.1	9.7	8.8	6.7	7.1	5.5	5.3
1996	Treatment cycles	677	432	510	674	890	915	1105	1181	1226	1095	1202	1035	932	770	595	528
1996	Live births	74	48	56	79	112	93	109	135	131	135	112	115	68	61	43	31
1996	Live birth rate	10.9	11.1	11	11.7	12.6	10.2	9.9	11.4	10.7	12.3	9.3	11.1	7.3	7.9	7.2	5.9
1997	Treatment cycles	537	302	491	543	797	915	937	1002	1144	1051	1002	932	906	546	640	494
1997	Live births	67	43	41	57	92	104	108	88	120	111	106	101	77	38	49	30
1997	Live birth rate	12.5	14.2	8.4	10.5	11.5	11.4	11.5	8.8	10.5	10.6	10.6	10.8	8.5	7	7.7	6.1

A long term analysis of the HFEA Register data (1991-2006)

Year	DI	Under 25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
1998	Treatment cycles	388	238	359	508	543	762	789	893	862	977	892	813	778	723	531	535
1998	Live births	41	24	51	56	59	91	91	109	99	116	98	78	74	59	42	31
1998	Live birth rate	10.6	10.1	14.2	11	10.9	11.9	11.5	12.2	11.5	11.9	11	9.6	9.5	8.2	7.9	5.8
1999	Treatment cycles	275	199	311	386	491	553	637	696	756	784	796	730	695	595	585	433
1999	Live births	33	23	40	52	80	68	93	99	101	87	94	75	58	51	44	31
1999	Live birth rate	12	11.6	12.9	13.5	16.3	12.3	14.6	14.2	13.4	11.1	11.8	10.3	8.3	8.6	7.5	7.2
2000	Treatment cycles	269	132	188	283	365	395	483	577	572	615	591	614	596	540	443	403
2000	Live births	38	21	26	41	54	58	56	76	65	73	69	64	58	38	37	27
2000	Live birth rate	14.1	15.9	13.8	14.5	14.8	14.7	11.6	13.2	11.4	11.9	11.7	10.4	9.7	7	8.4	6.7
2001	Treatment cycles	202	99	125	187	264	332	369	463	588	512	541	566	658	546	441	406
2001	Live births	25	17	18	28	36	59	62	61	53	63	72	52	72	55	28	28
2001	Live birth rate	12.4	17.2	14.4	15	13.6	17.8	16.8	13.2	9	12.3	13.3	9.2	10.9	10.1	6.3	6.9
2002	Treatment cycles	219	116	149	204	261	305	407	459	487	505	497	522	585	633	451	445
2002	Live births	31	15	19	36	42	43	59	67	67	68	75	67	55	51	33	42
2002	Live birth rate	14.2	12.9	12.8	17.6	16.1	14.1	14.5	14.6	13.8	13.5	15.1	12.8	9.4	8.1	7.3	9.4
2003	Treatment cycles	217	108	119	176	258	309	452	416	547	459	551	542	525	556	543	465
2003	Live births	29	22	22	27	33	39	63	60	72	61	57	57	56	55	54	30
2003	Live birth rate	13.4	20.4	18.5	15.3	12.8	12.6	13.9	14.4	13.2	13.3	10.3	10.5	10.7	9.9	9.9	6.5
2004	Treatment cycles	147	132	161	175	222	271	342	402	446	478	438	519	541	497	551	489
2004	Live births	25	18	26	31	31	37	46	59	47	74	57	47	47	43	35	37
2004	Live birth rate	17	13.6	16.1	17.7	14	13.7	13.5	14.7	10.5	15.5	13	9.1	8.7	8.7	6.4	7.6
2005	Treatment cycles	162	102	99	157	166	230	292	306	334	397	391	454	421	367	415	363
2006	Treatment cycles	93	59	98	89	95	121	186	184	249	227	252	298	328	300	290	281

Table 28b

Year	DI	40	41	42	43	44	45	46	47	48	49	50	Over 50	Unknown	All ages
1991	**Treatment cycles**	229	132	72	45	35	10	4	2	2	0	0	0	0	9303
1991	**Live births**	2	4	0	1	0	0	0	0	0	0	0	0	0	486
1991	**Live birth rate**	0.9	3	0	++	++	++	++	++	++	0	0	0	0	5.2
1992	**Treatment cycles**	601	425	266	161	90	34	14	6	0	1	0	0	1	26078
1992	**Live births**	22	8	1	1	4	0	0	0	0	0	0	0	0	1356
1992	**Live birth rate**	3.7	1.9	0.4	0.6	4.4	++	++	++	0	++	0	0	++	5.2
1993	**Treatment cycles**	508	440	290	192	68	38	22	5	6	2	2	0	3	24230
1993	**Live births**	10	14	2	2	0	0	0	0	0	0	0	0	0	1559
1993	**Live birth rate**	2	3.2	0.7	1	0	++	++	++	++	++	++	0	++	6.4
1994	**Treatment cycles**	510	345	288	174	93	32	18	17	7	5	1	0	1	21484
1994	**Live births**	18	8	4	2	0	1	0	0	0	0	0	0	0	1715
1994	**Live birth rate**	3.5	2.3	1.4	1.1	0	++	++	++	++	++	++	0	++	8
1995	**Treatment cycles**	421	306	179	141	65	37	10	9	11	6	1	3	6	18001
1995	**Live births**	13	7	2	3	0	1	0	0	0	0	0	1	3	1583
1995	**Live birth rate**	3.1	2.3	1.1	2.1	0	++	++	++	++	++	++	++	++	8.8
1996	**Treatment cycles**	416	277	182	107	88	35	14	10	1	1	7	2	6	14913
1996	**Live births**	25	7	6	2	4	1	0	0	0	0	0	0	3	1450
1996	**Live birth rate**	6	2.5	3.3	1.9	4.5	++	++	++	++	++	++	++	++	9.7
1997	**Treatment cycles**	417	286	151	100	56	23	16	6	2	0	3	1	5	13305
1997	**Live births**	22	16	3	0	0	0	0	0	0	0	0	0	1	1274
1997	**Live birth rate**	5.3	5.6	2	0	0	++	++	++	++	0	++	++	++	9.6
1998	**Treatment cycles**	364	227	207	87	45	27	6	6	2	1	0	4	12	11579
1998	**Live births**	20	12	2	2	0	1	0	0	1	0	0	0	3	1160
1998	**Live birth rate**	5.5	5.3	1	2.3	++	++	++	++	++	++	0	++	++	10

A long term analysis of the HFEA Register data (1991-2006)

Year	DI	40	41	42	43	44	45	46	47	48	49	50	Over 50	Unknown	All ages
1999	**Treatment cycles**	369	275	147	102	56	24	8	12	1	0	0	0	291	10207
1999	**Live births**	18	10	7	3	0	0	0	0	0	0	0	0	23	1090
1999	**Live birth rate**	4.9	3.6	4.8	2.9	0	++	++	++	++	0	0	0	7.9	10.7
2000	**Treatment cycles**	303	199	158	83	62	20	12	9	12	0	0	0	430	8354
2000	**Live births**	17	11	4	1	0	1	0	0	0	0	0	0	33	868
2000	**Live birth rate**	5.6	5.5	2.5	1.2	0	++	++	++	++	0	0	0	7.7	10.4
2001	**Treatment cycles**	317	247	140	95	58	31	13	8	5	6	0	0	361	7580
2001	**Live births**	14	11	6	1	1	0	0	0	0	0	0	0	34	796
2001	**Live birth rate**	4.4	4.5	4.3	1.1	1.7	++	++	++	++	++	0	0	9.4	10.5
2002	**Treatment cycles**	324	211	151	102	68	56	25	3	5	2	0	0	131	7323
2002	**Live births**	21	13	3	1	2	0	0	0	0	0	0	0	13	823
2002	**Live birth rate**	6.5	6.2	2	1	2.9	0	++	++	++	++	0	0	9.9	11.2
2003	**Treatment cycles**	319	263	190	133	70	40	23	12	2	4	0	0	23	7322
2003	**Live births**	17	13	2	2	1	0	0	0	0	0	0	0	8	780
2003	**Live birth rate**	5.3	4.9	1.1	1.5	1.4	++	++	++	++	++	0	0	++	10.7
2004	**Treatment cycles**	382	288	163	110	87	17	7	9	5	4	1	0	9	6893
2004	**Live births**	19	12	9	6	1	0	0	0	0	0	0	0	1	708
2004	**Live birth rate**	5	4.2	5.5	5.5	1.1	++	++	++	++	++	++	0	++	10.3
2005	**Treatment cycles**	338	271	157	105	61	32	10	1	4	0	0	0	214	5849
2006	**Treatment cycles**	229	196	127	82	59	24	9	2	0	1	0	0	192	4071

29). Single women and same sex couples receiving treatment

Table 29 details the estimated number & percentage of single and lesbian women receiving licensed treatment.

Table 29

Year	IVF treatment cycles (and % of total IVF cycles) for single females registered after 01/04/1999		IVF treatment cycles (and % of total IVF cycles) for lesbian females registered after 01/04/1999		IVF treatment cycles (and % of total IVF cycles) for all other females registered after 01/04/1999		Total IVF treatment cycles for any female registered after 01/04/1999	DI treatment cycles (and % of total DI cycles) for single females registered after 01/04/1999		DI treatment cycles (and % of total DI cycles) for lesbian females registered after 01/04/1999		DI treatment cycles (and % of total DI cycles) for all other females registered after 01/04/1999		Total DI treatment cycles for any female registered after 01/04/1999
1999	125	0.7%	14	0.1%	19058	99.3%	19197	508	11.7%	284	6.6%	3536	81.7%	4328
2000	220	0.7%	36	0.1%	30068	99.2%	30324	845	13.7%	413	6.7%	4931	79.7%	6189
2001	264	0.8%	51	0.2%	32212	99.0%	32527	930	14.6%	541	8.5%	4880	76.8%	6351
2002	319	0.9%	90	0.3%	35272	98.9%	35681	1026	15.4%	645	9.7%	5003	74.9%	6674
2003	415	1.1%	83	0.2%	36056	98.6%	36554	1271	18.1%	712	10.2%	5029	71.7%	7012
2004	439	1.1%	98	0.2%	39048	98.6%	39585	1169	17.4%	921	13.7%	4644	69.0%	6734
2005	595	1.5%	157	0.4%	39443	98.1%	40195	937	16.8%	797	14.3%	3860	68.9%	5594
2006	574	1.4%	201	0.5%	39709	98.1%	40484	705	18.0%	767	20.1%	2392	61.9%	3864

Glossary of Terms/Abbreviations

ART – Assisted Reproductive Technology. These are treatments which incorporate the use of IVF, ICSI or DI.

Cancelled/abandoned cycles - Cancelled cycles are those where drugs were administered or the patients were prepared for treatment but where egg collection did not take place. Centres should report cycles which are started. This is the point at which stimulatory drugs are first administered or in the case of natural (unstimulated) cycles the date of the last patients last menstrual. Differences in the numbers/rate of cancelled cycles may suggest underreporting of cycles started by some centres.

Cycles started - In most cases A RT treatment is triggered by the administration of stimulatory drugs to a patient.

DI – Donor Insemination

Egg collection - The majority of patients who are accepted onto an ART programme advance to the stage of egg collection following a course of stimulatory drugs. However, in some cases the patient may not respond appropriately to the drugs and so the cycle is cancelled.

Embryo transfers - Following the successful harvesting of eggs, these are usually mixed with fresh sperm, allowed to grow within a culture medium (liquid) within an incubator. Once the embryos reach a certain stage of development they are transferred to the patient.

Embryos – Egg fertilised with a sperm or equivalent

Fresh and frozen cycles - In most cases, the eggs collected from a patient are mixed with her partners fresh sperm to produce embryos within a few days. These fresh embryos are then transferred back to the patient. Where the patient's body is not ready to receive the embryos, or where an excess of embryos is available, the spare embryos may be cryogenically frozen for future use. Once thawed, these embryos are transferred to the patient as a frozen cycle.

Gametes – Sperm or eggs

IVF – In Vitro Fertilisation. An ART procedure that involves removing eggs from a woman's ovaries and fertilizing them outside her body. The resulting embryos are then transferred into the woman's uterus through the cervix.

ICSI - IntraCytoplasmic Sperm Injection. A procedure in which a single sperm is injected directly into an egg; this procedure is most commonly used to overcome male infertility problems.

Live Birth Event - the point at which one or more children are born

Live Birth Rate - is found by dividing the number of successful live birth events into the number of treatment cycles started.

Lost To Follow-Up – Where patients cannot be contacted by clinics to find out the final outcome of the treatment they received (for example a live birth or miscarriage, etc). then these are reported as LTFU. Typically it is where a patient has moved home within the pregnancy without informing the clinic or overseas patients which can be difficult to trace.

PGD – Pre-implantation Genetic Diagnosis

PGS – Pre-implantation Genetic Screening

Reduction – Sometimes it may be necessary to reduce the number of foetuses growing in the womb. This can be either to protect the health of the mother or to allow at least one foetus to survive and produce a healthy child. With fewer embryos being transferred during IVF treatments, the need for fetal reductions lessens.

Singleton Birth – The birth of a single baby at a live birth event

Stimulated cycles. In order to control the ovulation of a patient, stimulatory drugs are often administered.

Termination – Sometimes for the health of the patient it is necessary to terminate (abort) a pregnancy. At the point of termination, there may have been one or more foetuses developing in the womb. Terminations are very rare.

Triplet Birth - The birth of three babies at a live birth event

Twin Birth - The birth of two babies at a live birth event

Unstimulated cycles. There are a small number of licensed ART treatments carried out in the UK each year without the use of stimulatory drugs, and there are referred to as natural cycles.