# College van Geneesheren Reproductieve Geneeskunde
# Collège de Médecins Médecine de la Reproduction
# College of Physicians of Reproductive Medicine
# IVF Report

## Belgium 2020

15 November 2022

Version 1.0

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## Section 1: General overview

### Table 1.1 All cycles: Type of cycles

| Type of cycle* | Statistic | All Centres | | |
|---|---|---|---|---|
| | | Total (N=33245) | With social security (N=28248) | Without social security (N=4997) |
| Own fresh cycle | n (%) | 15710 ( 47.26%) | 13436 ( 47.56%) | 2274 ( 45.51%) |
| Own embryo cryo cycle | n (%) | 14491 ( 43.59%) | 12391 ( 43.87%) | 2100 ( 42.03%) |
| Other cycle$ | n (%) | 3044 ( 9.16%) | 2421 ( 8.57%) | 623 ( 12.47%) |

*: Definitions of the different type of cycles can be found in Appendix Table 9.1.
$: Other type of cycles are explained in Table 1.2.
In-vitro maturation (IVM) cycles are included in other cycles.

## Table 1.2 All cycles: Type of other cycles

| Type of other cycle* | Statistic | All Centres | | |
|---|---|---|---|---|
| | | Total (N=3044) | With social security (N=2421) | Without social security (N=623) |
| Cryo embryo recipient – donor egg | n (%) | 815 ( 2.45%) | 606 ( 2.15%) | 209 ( 4.18%) |
| Own oocyte freezing cycle | n (%) | 573 ( 1.72%) | 448 ( 1.59%) | 125 ( 2.50%) |
| Fresh oocyte donor cycle | n (%) | 539 ( 1.62%) | 484 ( 1.71%) | 55 ( 1.10%) |
| Fresh oocyte recipient cycle | n (%) | 507 ( 1.53%) | 353 ( 1.25%) | 154 ( 3.08%) |
| Thawed oocyte recipient cycle | n (%) | 277 ( 0.83%) | 257 ( 0.91%) | 20 ( 0.40%) |
| Cryo embryo recipient – donor embryo | n (%) | 107 ( 0.32%) | 87 ( 0.31%) | 20 ( 0.40%) |
| Own thawed oocyte cycle | n (%) | 105 ( 0.32%) | 79 ( 0.28%) | 26 ( 0.52%) |
| All IVM cycles | n (%) | 81 ( 0.24%) | 73 ( 0.26%) | 8 ( 0.16%) |
| Mixed (fresh + thawed) cycle | n (%) | 24 ( 0.07%) | 21 ( 0.07%) | 3 ( 0.06%) |
| Thawed surrogate carrier cycle | n (%) | 16 ( 0.05%) | 13 ( 0.05%) | 3 ( 0.06%) |

*: Definitions of the different type of cycles can be found in Appendix Table 9.1.
Percentages are calculated on all cycles given in the table 1.1.
IVM = In-vitro maturation

## Table 1.3 All cycles: Number of births

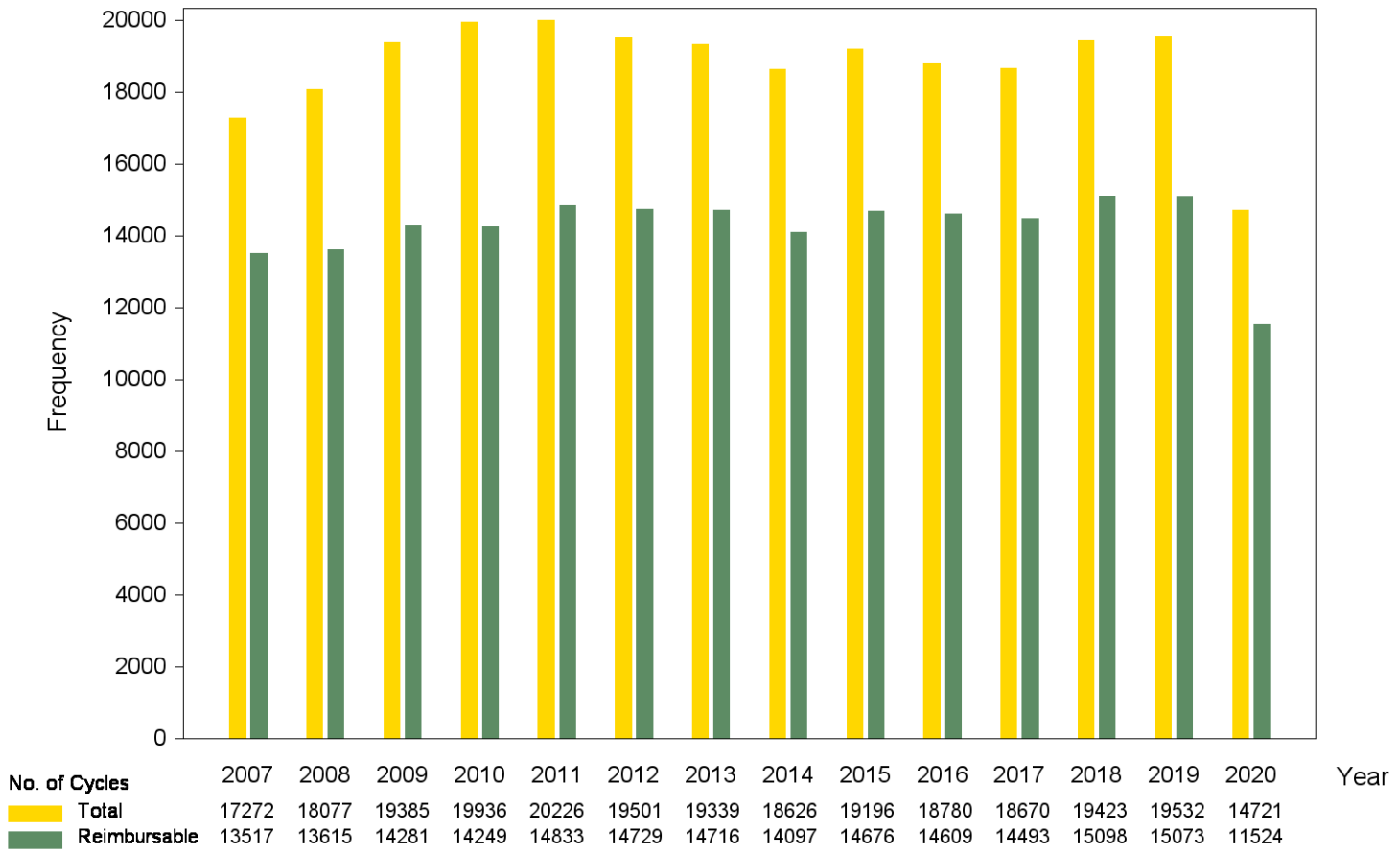
| | Statistic | All Centres |
|---|---|---|
| Number of deliveries | | |
| Singleton | n (%) | 4719 ( 95.22%) |
| Twins | n (%) | 236 ( 4.76%) |
| Triplets | n (%) | 1 ( 0.02%) |
| Total number of births | n | 5194 |
| Cycles with missing data on delivery | n | 696 |

**Table 1.4 Own and recipient fresh cycles: Number of laboratory treatment cycles**

| | All Centres (N=13624, Missing=1186) | | | | |
|---|---|---|---|---|---|
| | Patients with social security | | Patients without social security | | Total |
| | N | (%) | N | (%) | N |
| **All ages & ranks** | 11574 | (85.0%) | 2050 | (15.0%) | 13624 |
| **< 43 years old & rank < 7** | 11211 | (86.6%) | 1735 | (13.4%) | 12946 |
| **< 43 years old & rank >=7** | 117 | (69.2%) | 52 | (30.8%) | 169 |
| **>= 43 years old** | 246 | (48.3%) | 263 | (51.7%) | 509 |

Note: Cancelled cycles are not included in the table.

**Figure 1.5 Own and recipient fresh cycles: Evolution of total number of cycles**




| No. of Cycles | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 17272 | 18077 | 19385 | 19936 | 20226 | 19501 | 19339 | 18626 | 19196 | 18780 | 18670 | 19423 | 19532 | 14721 |
| Reimbursable | 13517 | 13615 | 14281 | 14249 | 14833 | 14729 | 14716 | 14097 | 14676 | 14609 | 14493 | 15098 | 15073 | 11524 |

Note: Cancelled cycles are not included in the figure. Reimbursable mixed cycles, own thawed oocytes cycles, thawed oocytes recipient cycles and all IVM cycles are included in the figure.

## Section 2: Own fresh cycles

### Table 2.1 Own fresh cycles: Overview of cycles

| Cycle | All Centres | |
|---|---|---|
| Initiated | 15710 | (100.0%) |
| Cancelled | 1689 | (10.8%) |
| Aspiration | 14021 | (89.2%) |
| Embryo Transfer | 8505 | (54.1%) |

## Figure 2.2 Own fresh cycles: Female age and laborank

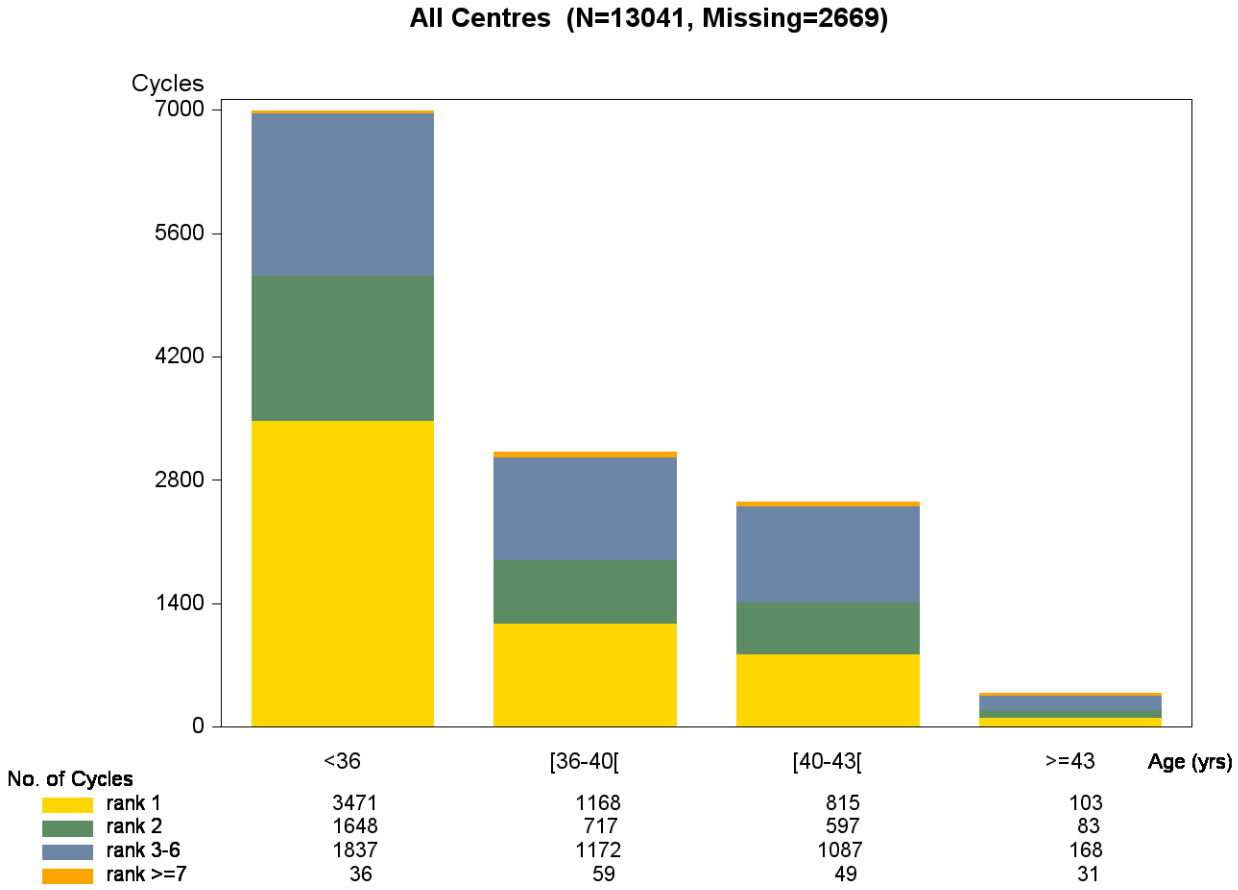


**Figure 2.3 Own fresh cycles: Residence of the patient**

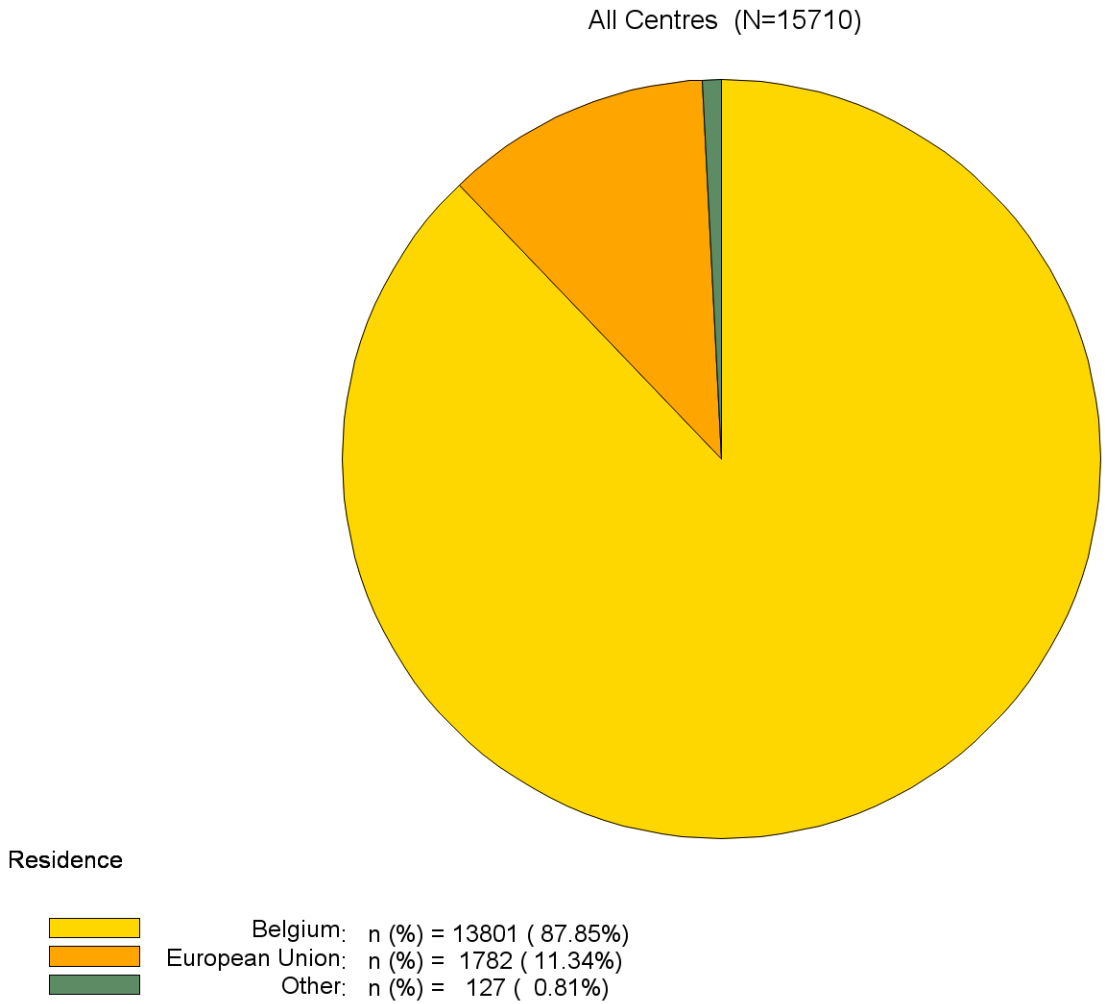
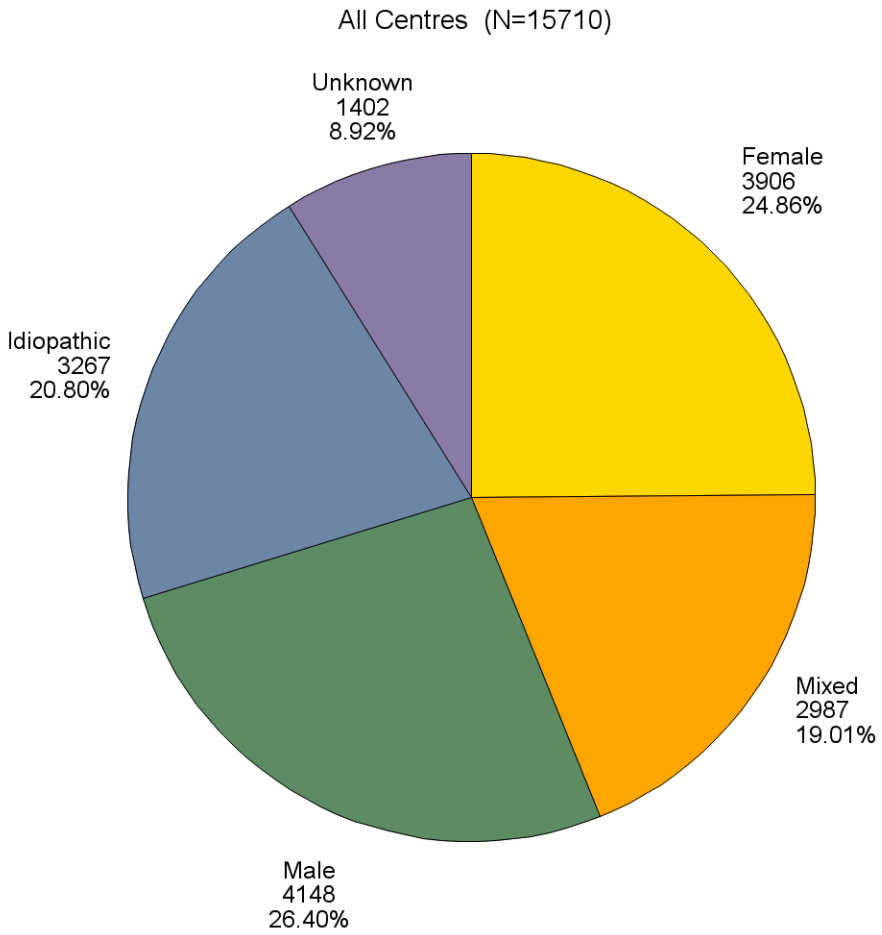


**Figure 2.4 Own fresh cycles: Indications of ART**




1502 cycles are counted as No male pathology due to non-applicability (lesbian=523, single=958 and other=21)

**Table 2.5 Own fresh cycles: Indications of ART: female and male causes**

| | Statistic | All Centres |
|---|---|---|
| **Female pathology** | N | 6893 |
| Tubal | n/N (%) | 2116/6466 ( 32.73%) |
| Endometriosis | n/N (%) | 1657/5816 ( 28.49%) |
| Ovulatory | n/N (%) | 2305/6668 ( 34.57%) |
| Premature Ovarian Failure | n/N (%) | 691/6623 ( 10.43%) |
| Genetic anomaly | n/N (%) | 866/5801 ( 14.93%) |
| Uterine factor | n/N (%) | 609/6692 ( 9.10%) |
| **Male pathology** | N | 7135 |
| Genetic anomaly | n/N (%) | 597/6106 ( 9.78%) |
| Sperm abnormality | n/N (%) | 6674/7085 ( 94.20%) |

Some patients have more than one cause identified per cycle.

**Table 2.6 Own fresh cycles: Serological status**

| | Statistic | All Centres (N=15710) |
|---|---|---|
| **Female positive serological status** | n/N (%) | 251/15246 ( 1.65%) |
| **Male positive serological status** | n/N (%) | 242/13961 ( 1.73%) |

**Figure 2.7 Own fresh cycles: Female age distribution**

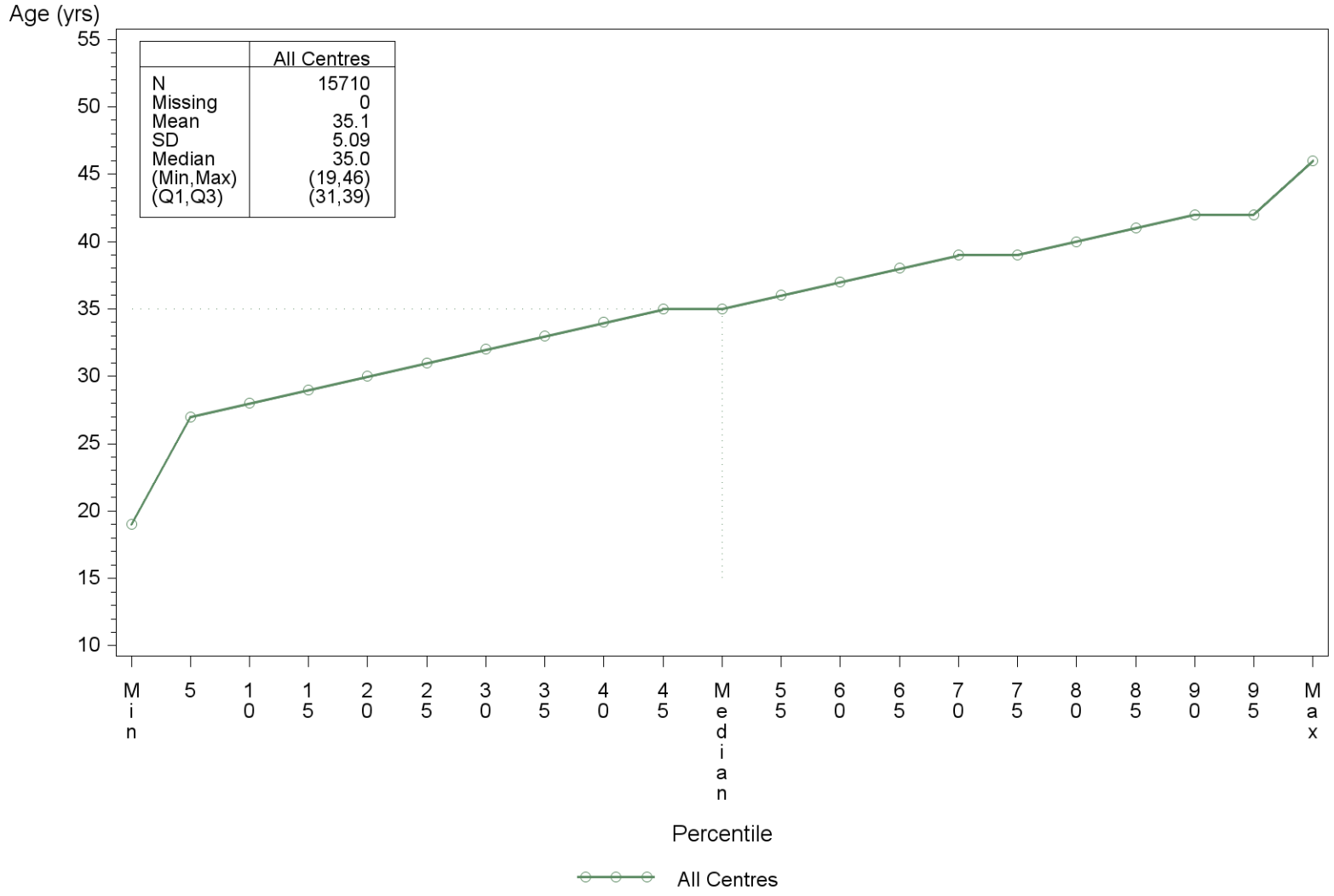
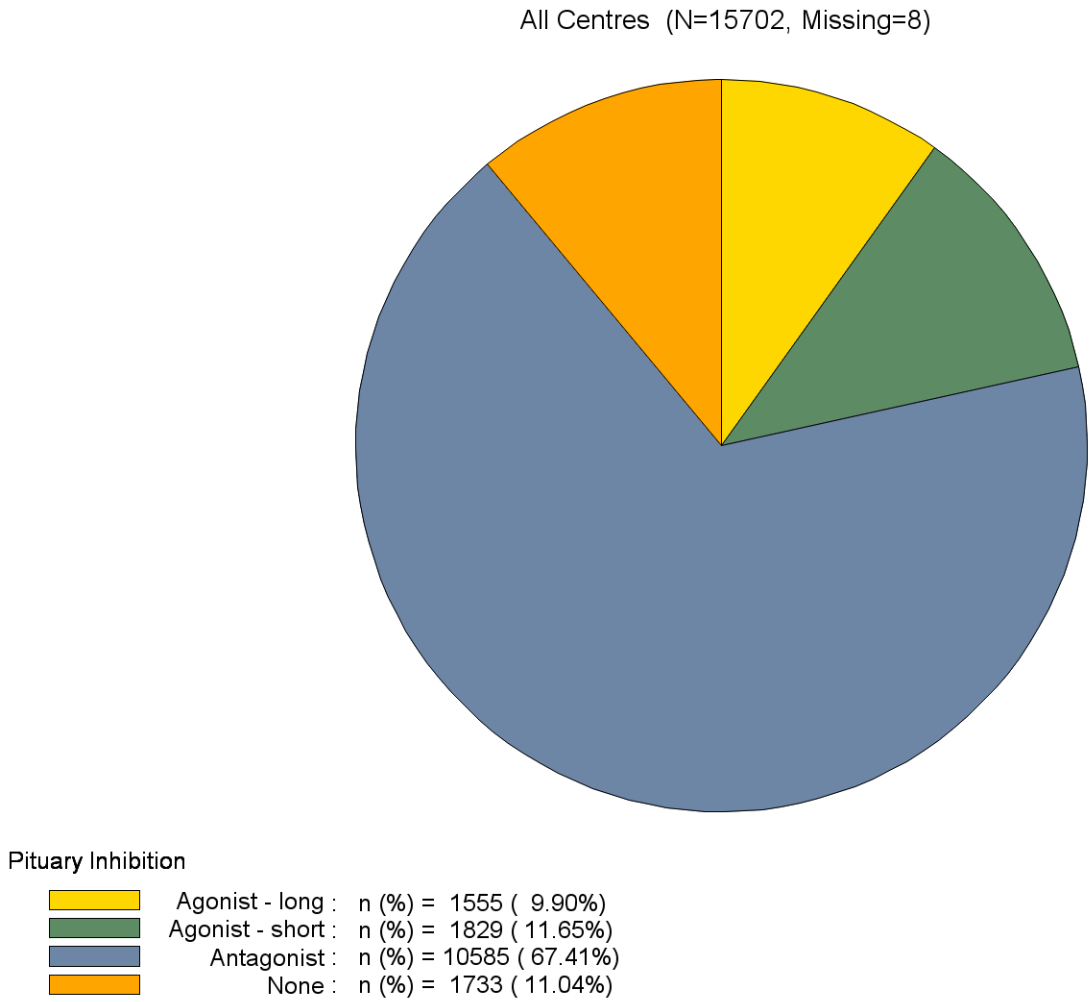


**Figure 2.8 Own fresh cycles: Pituitary inhibition**

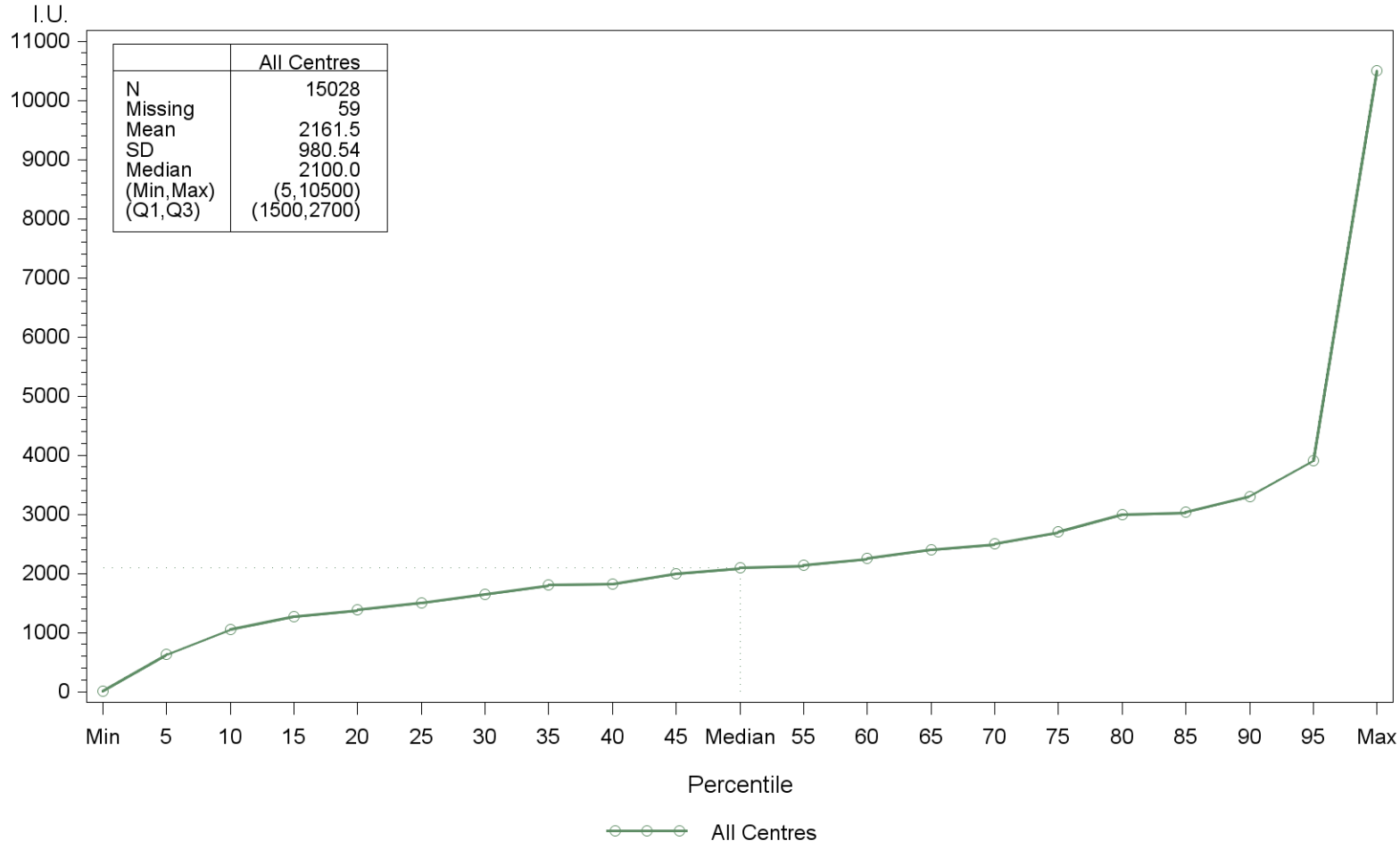


## Table 2.9 Own fresh cycles: Stimulation protocol

| | Statistic | All Centres (N=15710) |
|---|---|---|
| Stimulation with clomiphene | n/N (%) | 544/14326 ( 3.80%) |
| Stimulation with gonadotrophins | n/N (%) | 15087/15582 ( 96.82%) |
| Spontaneous/modified cycle | n/N (%) | 282/13841 ( 2.04%) |
| Other stimulation | n/N (%) | 75/15329 ( 0.49%) |

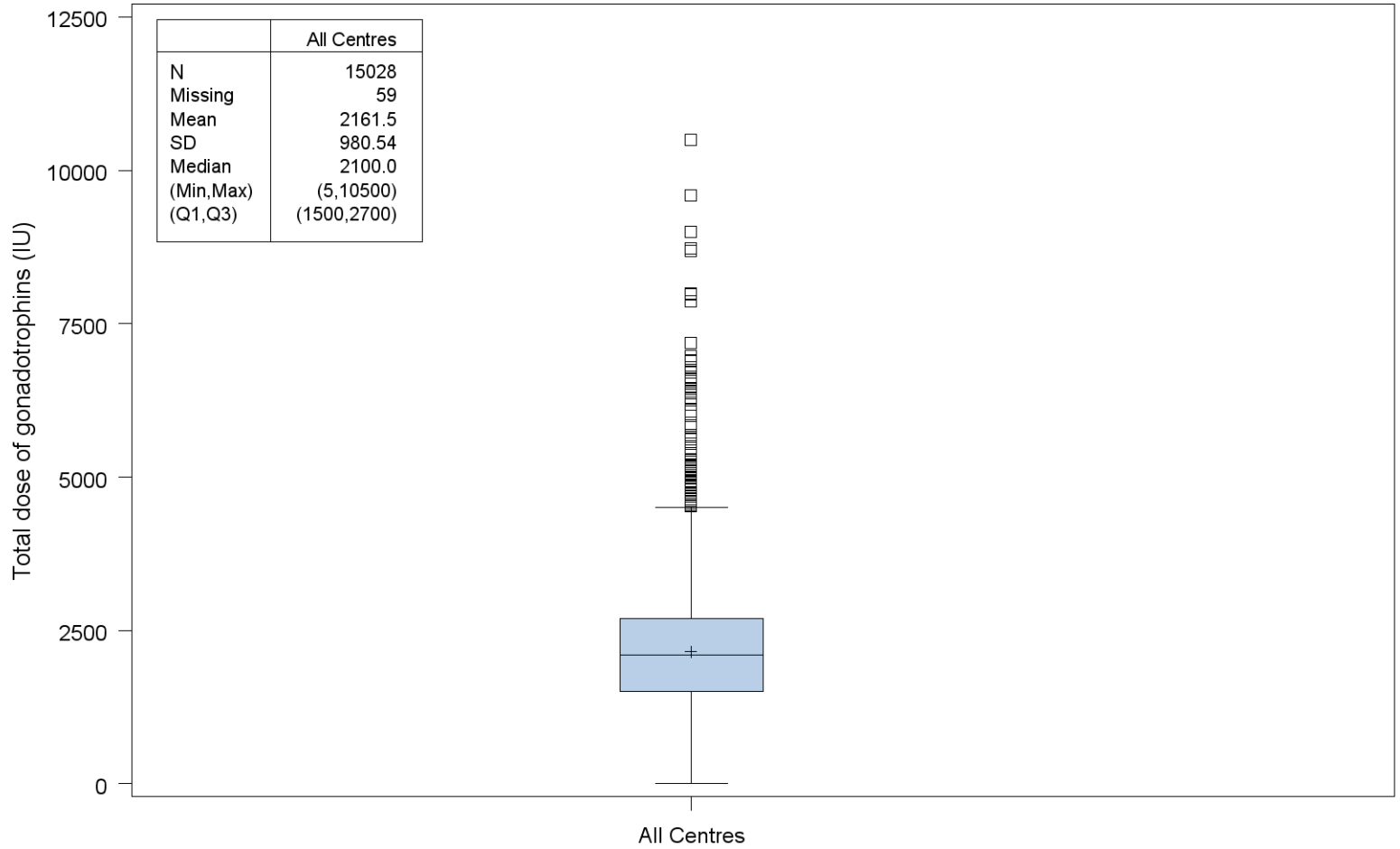
Patients can receive different medications.

**Figure 2.10 Own fresh cycles: Total dose of gonadotrophins administered (percentiles)**




Long acting FSH is counted as a gonadotrophins dose of 1540 I.U.
For Rekovelle, dose in mcg was mulitplied with 25 to get the dose in I.U.

**Figure 2.11 Own fresh cycles: Total dose of gonadotrophins administered (boxplot)**




Box plot shows median and interquartile range. Whiskers are drawn at (Q3+1.5*IQR, Q1-1.5*IQR).
Q1, Q3 = 1st and 3rd quartile, IQR = Q3 - Q1. +-sign indicates mean value.
Long acting FSH is counted as a gonadotrophins dose of 1540 I.U.
For Rekovelle, dose in mcg was mulitplied with 25 to get the dose in I.U.

## Table 2.12 Own fresh cycles: Methods of fertilization

| | Statistic | All Centres (N=13344, Missing=286) |
|---|---|---|
| Method of fertilization | | |
| IVF | n/N (%) | 1763/13344 ( 13.21%) |
| ICSI | n/N (%) | 10336/13344 ( 77.46%) |
| Mixed (IVF + ICSI) | n/N (%) | 1245/13344 ( 9.33%) |

1. Cycles with at least 1 oocyte retrieved are included.
2. Sperm of partner or donor are both included.

## Table 2.13 Own fresh cycles: ICSI method sperm from partner

| Sperm | All Centres (N=7843, Missing=731) Fresh sperm | |
|---|---|---|
| | N | % |
| **Ejaculated** | 7738 | 98.66 |
| **Surgically retrieved** | 105 | 1.34 |
| **Total** | 7843 | 100.00 |

No data for thawed sperm available.

**Table 2.14 Own fresh cycles: Transfers by age and rank categories**

| Age (yrs) | <36 | | | | | [36-40[ | | | | | [40-43[ | | | | | >=43 | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rank** | **1** | **2** | **3-6** | **>=7** | **Total** | **1** | **2** | **3-6** | **>=7** | **Total** | **1** | **2** | **3-6** | **>=7** | **Total** | **Total** | **Total** |
| **All Centres (N=13041, Missing=980)** | | | | | | | | | | | | | | | | | |
| Aspirations | 3471 | 1648 | 1837 | 36 | 6992 | 1168 | 717 | 1172 | 59 | 3116 | 815 | 597 | 1087 | 49 | 2548 | 385 | 13041 |
| Transfers | 2062 | 1007 | 1150 | 23 | 4242 | 747 | 498 | 739 | 41 | 2025 | 577 | 420 | 760 | 35 | 1792 | 264 | 8323 |
| Embryos transferred | | | | | | | | | | | | | | | | | |
| 1 | 2053 | 792 | 696 | 5 | 3546 | 596 | 362 | 436 | 17 | 1411 | 386 | 234 | 407 | 16 | 1043 | 116 | 6116 |
| 2 | 9 | 215 | 453 | 18 | 695 | 148 | 133 | 265 | 17 | 563 | 158 | 147 | 271 | 15 | 591 | 100 | 1949 |
| 3 | 0 | 0 | 1 | 0 | 1 | 2 | 3 | 38 | 7 | 50 | 28 | 36 | 74 | 4 | 142 | 41 | 234 |
| >3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 5 | 3 | 8 | 0 | 16 | 7 | 24 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## Table 2.15 Own fresh cycles: Transfers by social security

| | All Centres (N=15710, Missing=0) | | |
|---|---|---|---|
| | With social security | Without social security | Total |
| Initiated cycles | 13436 | 2274 | 15710 |
| Aspirations | 12055 | 1966 | 14021 |
| Transfers | 7469 | 1036 | 8505 |
| Embryos transferred | | | |
| 1 | 5541 | 727 | 6268 |
| 2 | 1734 | 241 | 1975 |
| 3 | 179 | 59 | 238 |
| >3 | 15 | 9 | 24 |
| Unknown | 0 | 0 | 0 |

**Figure 2.16 Own fresh cycles: Embryos transferred women < 36 years old**

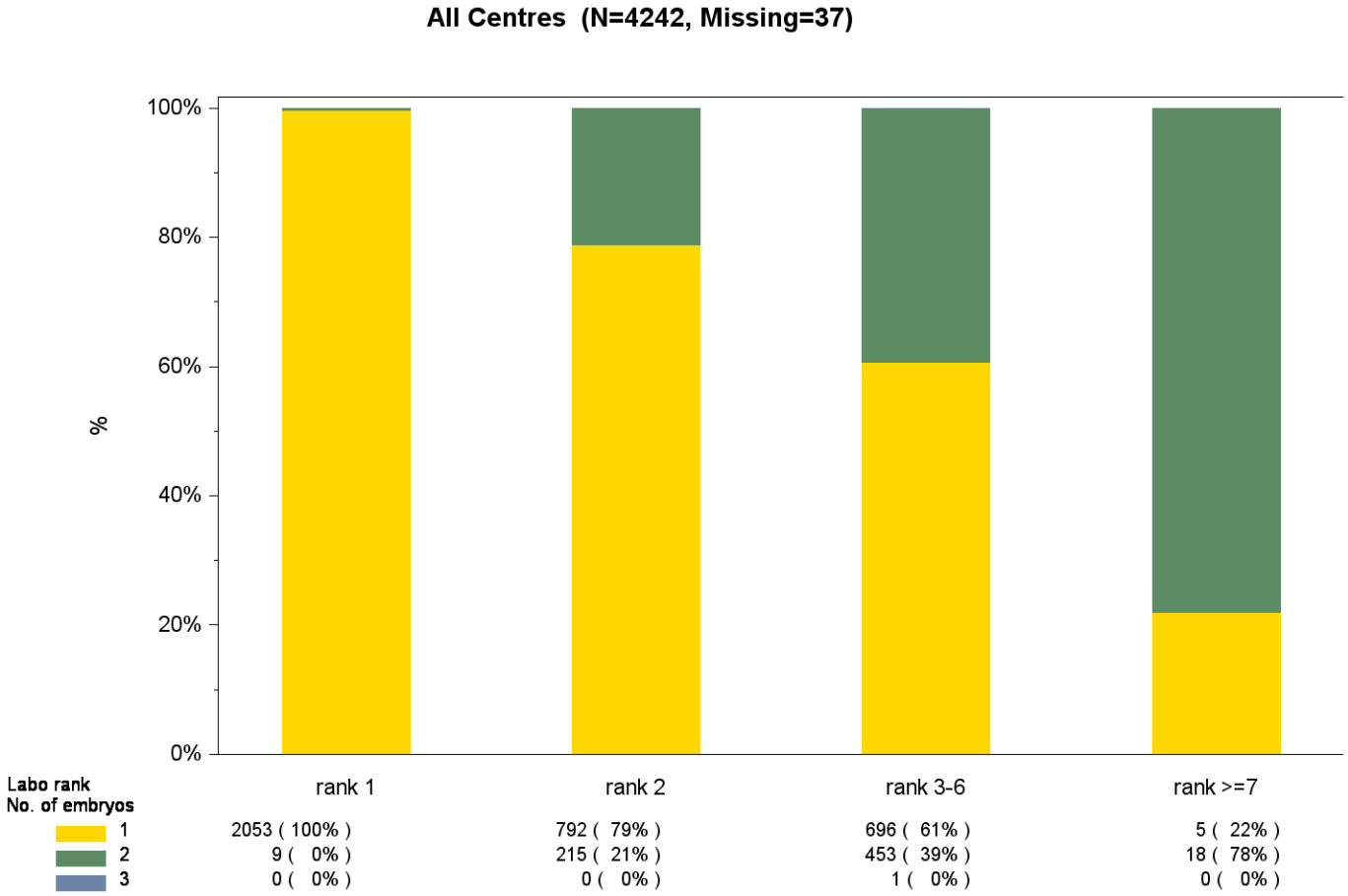


**Figure 2.17 Own fresh cycles: Embryos transferred women 36-39 years old**

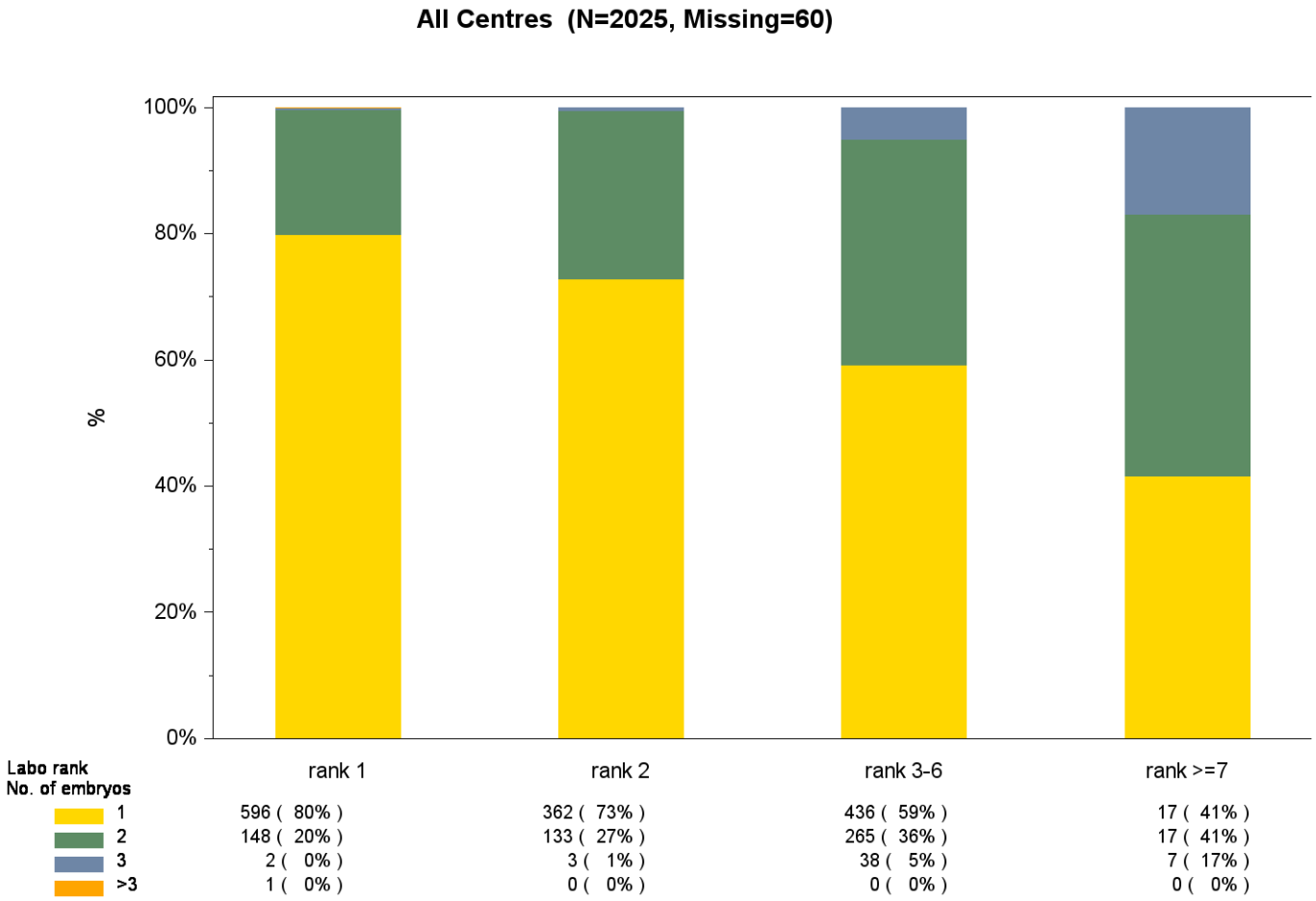
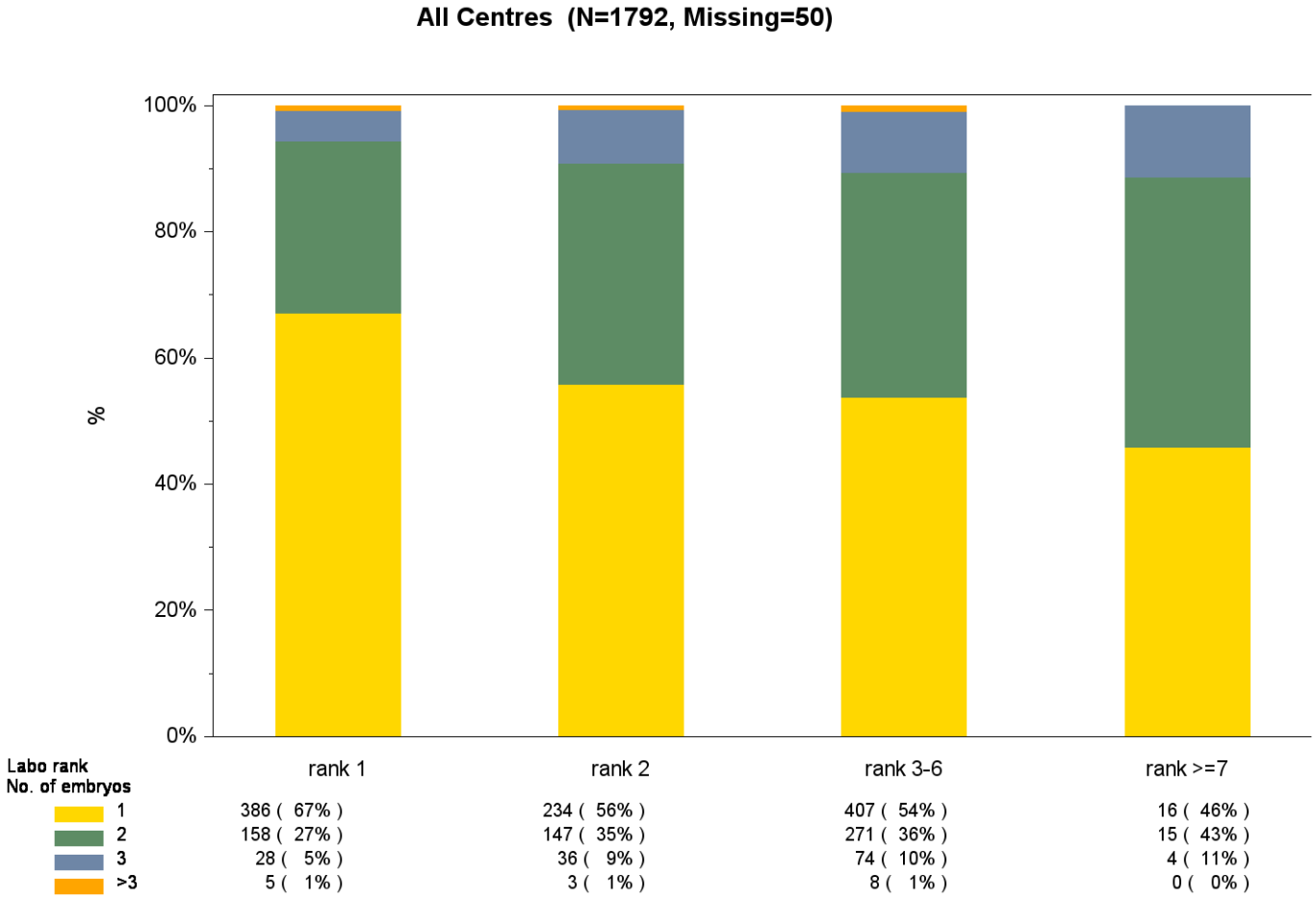


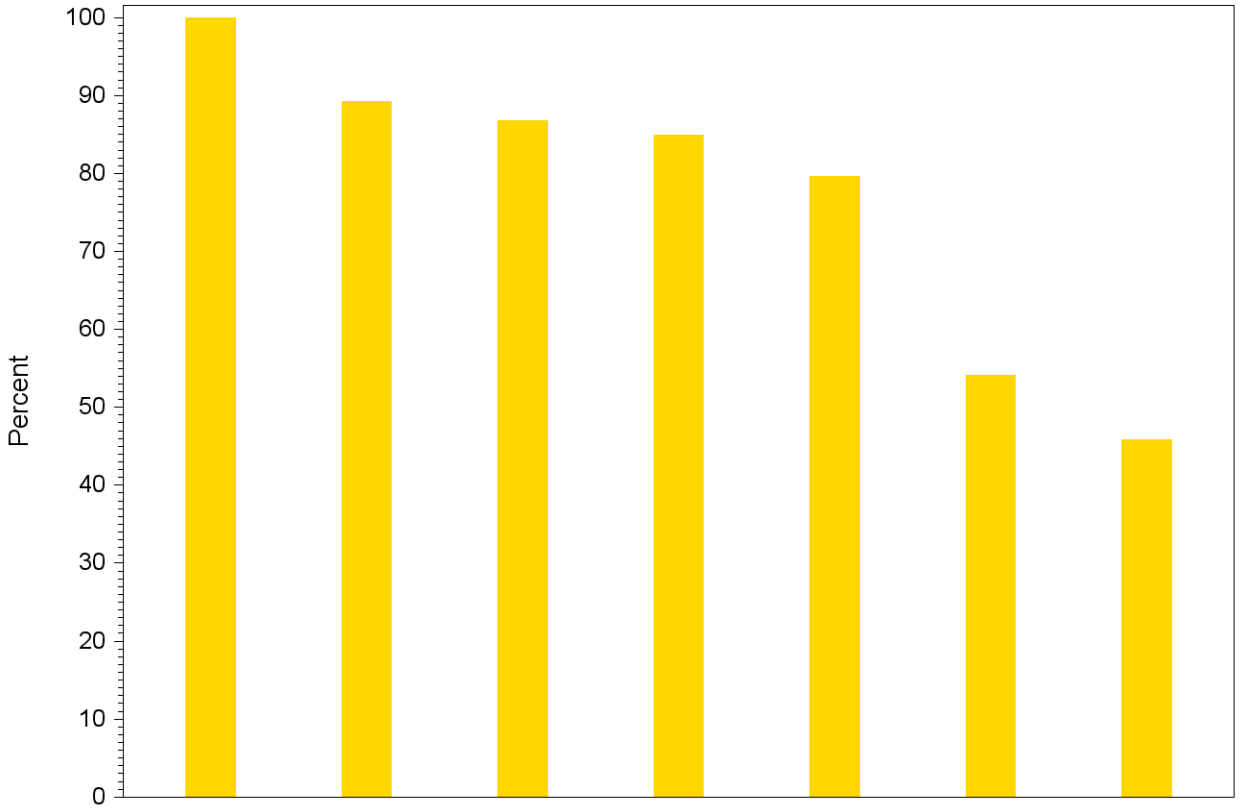
**Figure 2.18 Own fresh cycles: Embryos transferred women 40-42 years old**



## Table 2.19 Own fresh cycles: Laboratory data

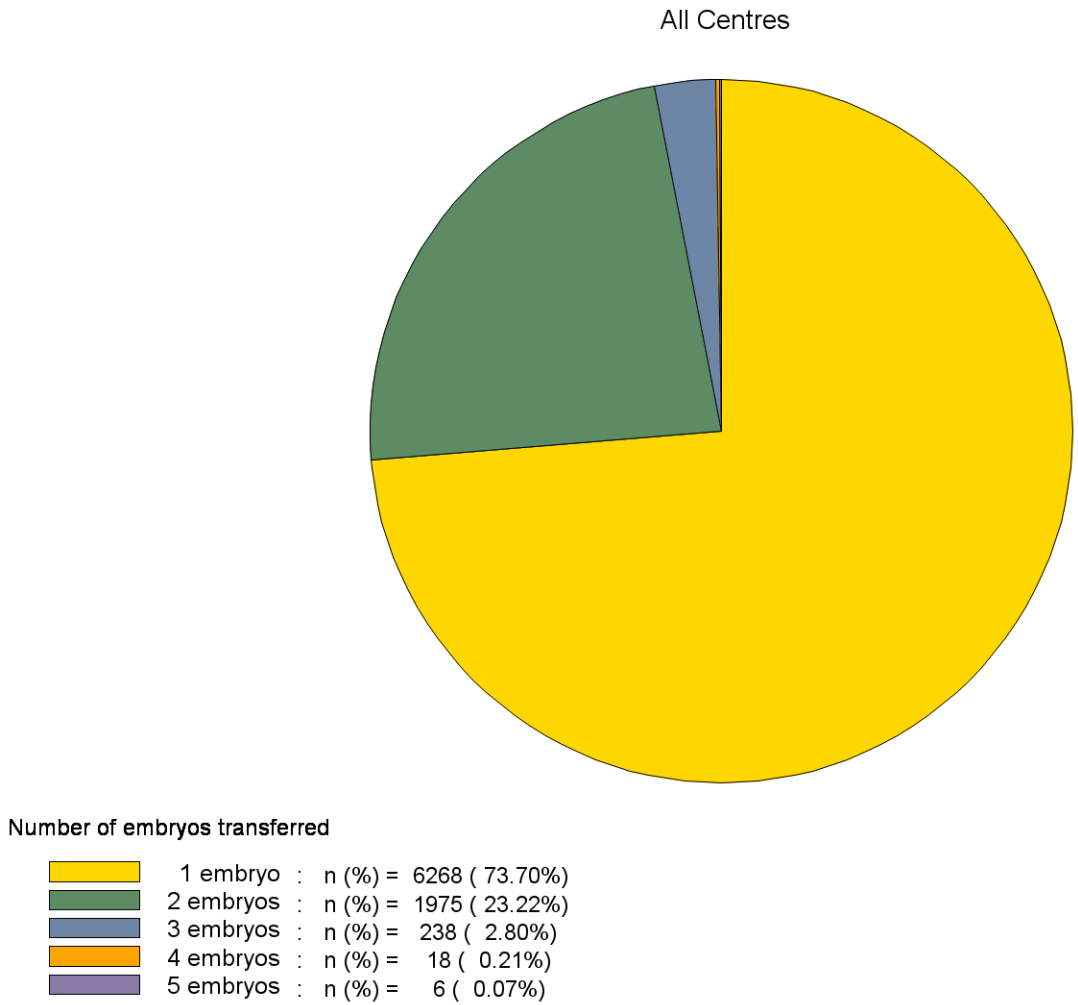
| | All Centres (N=14021, Missing=0) | | | | |
|---|---|---|---|---|---|
| | Oocytes retrieved | Oocytes inseminated (IVF, ICSI or mixed) | 2 PN oocytes | Transferred embryos | Cryopreserved embryos |
| n | 122548 | 100632 | 68229 | 11035 | 22195 |
| % | 100.0% | 82.1% | 55.7% | 9.0% | 18.1% |
| mean per pick-up | 8.7 | 7.2 | 4.9 | 0.8 | 1.6 |

**Figure 2.20 Own fresh cycles: Summary pick-up cycles**




| No. of Cycles (%) | Initiated | Aspiration | oocytes retrieved >=1 | oocytes inseminated >=1 | 2 pn >=1 | transfer embryo >=1 | cryopreservation >=1 embryo |
|---|---|---|---|---|---|---|---|
| All Centres | 15710 ( 100% ) | 14021 ( 89% ) | 13630 ( 87% ) | 13344 ( 85% ) | 12517 ( 80% ) | 8506 ( 54% ) | 7206 ( 46% ) |

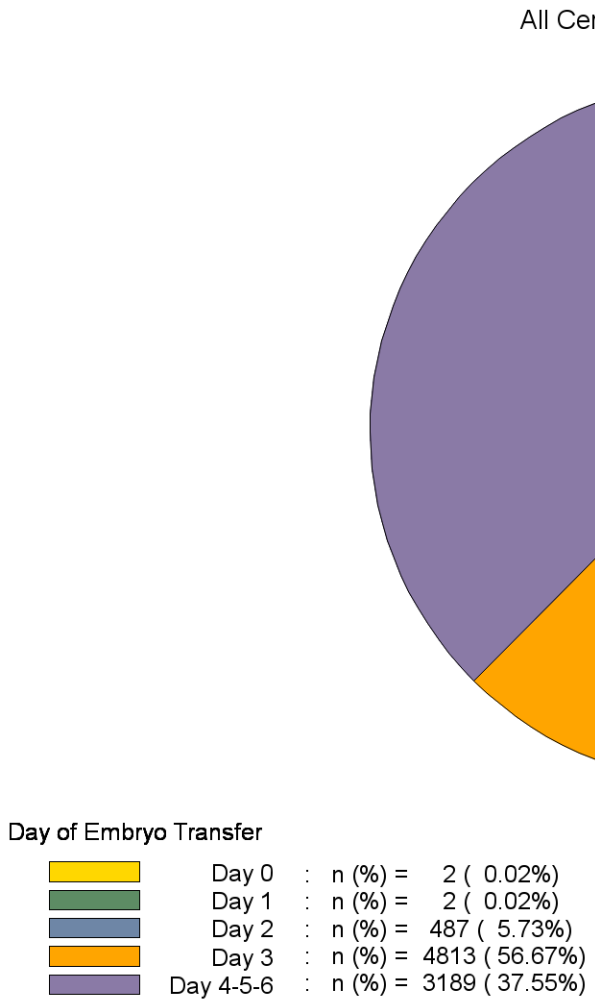
**Figure 2.21 Own fresh cycles: Distribution of embryo transfers**



## Table 2.22 Own fresh cycles: Cause of no transfer

| | | All Centres (N=5407, Missing=0) | |
|---|---|---|---|
| | **Statistic** | **Cycles without all embryos frozen** | **Cycles with all embryos frozen** |
| **No transfer** | N | 2909 | 2498 |
| No mature oocyte | n/N (%) | 432/2759 ( 15.66% ) | 0/2278 ( 0.00% ) |
| No sperm | n/N (%) | 38/2759 ( 1.38% ) | 72/2278 ( 3.16% ) |
| No transferable embryo available | n/N (%) | 1264/2759 ( 45.81% ) | 52/2278 ( 2.28% ) |
| OHSS risk | n/N (%) | 87/2759 ( 3.15% ) | 553/2278 ( 24.28% ) |
| Other reason | n/N (%) | 1063/2759 ( 38.53% ) | 1678/2278 ( 73.66% ) |
| Unknown | n/N (%) | 150/2909 ( 5.16% ) | 220/2498 ( 8.81% ) |

**Figure 2.23 Own fresh cycles: Day of embryo transfer**



## Table 2.24 Own fresh cycles: Cycles with embryo cryopreservation

| | All Centres (N=13544, Missing=86) |
|---|---|
| **Number of cycles with cryopreservation** | 7206/13544 ( 53% ) |
| **Number of embryos per cryopreservation procedure** | |
| Median | 2.0 |
| (Q1,Q3) | (1.0; 4.0) |
| **Stage of the cryopreserved embryos** | |
| 2 PN | 11/22195 ( 0% ) |
| Cleaved | 3497/22195 ( 16% ) |
| Blastocyts | 18687/22195 ( 84% ) |

Based on all cycles with at least one oocyte retrieved.
Q1,Q3 = 1st and 3rd quartile.

**Table 2.25 Own fresh cycles: Number of HCG+ pregnancies**

| Cycle | All Centres |
|---|---|
| Aspirations | 14021 |
| Transfers | 8505 |
| HCG +<br>per aspiration cycle | 3113/13960 (22.3%)<br>(22.2% - 22.6%) |
| HCG +<br>per aspiration cycle<br>excl. freeze all cycles | 3113/11462 (27.2%)<br>(27.0% - 27.5%) |
| HCG +<br>per embryo transfer | 3113/8444 (36.9%)<br>(36.6% - 37.3%) |

NA=no cycles with data available.
Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 2.26 Own fresh cycles: Number of clinical pregnancies**

| Cycle | All Centres |
|---|---|
| Aspirations | 14021 |
| Transfers | 8505 |
| Clinical Pregnancy per aspiration cycle | 2472/13791 (17.9%) (17.6% - 19.3%) |
| Clinical Pregnancy per aspiration cycle excl. freeze all cycles | 2472/11293 (21.9%) (21.5% - 23.4%) |
| Clinical Pregnancy per embryo transfer | 2472/8275 (29.9%) (29.1% - 31.8%) |

NA=no cycles with data available.
Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 2.27 Own fresh cycles: Number of clinical pregnancies including FHB**

| Cycle | All Centres |
|---|---|
| Aspirations | 14021 |
| Transfers | 8505 |
| FHB: 1/2/3 | 2312/17/2 |
| Clinical Pregnancy + FHB per aspiration cycle | 2331/13832 (16.9%) (16.6% - 18.0%) |
| Clinical Pregnancy + FHB per aspiration cycle excl. freeze all cycles | 2331/11334 (20.6%) (20.2% - 21.9%) |
| Clinical Pregnancy + FHB per embryo transfer | 2331/8316 (28.0%) (27.4% - 29.6%) |

NA=no cycles with data available.
Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 2.28 Own fresh cycles: Number of deliveries**

| Cycle | All Centres |
|---|---|
| Aspirations | 14021 |
| Transfers | 8505 |
| Number per delivery: 1/2/3 | 1727/107/0 |
| Delivery rate<br>per aspiration cycle | 1834/13787 (13.3%)<br>(13.1% - 14.7%) |
| Delivery rate<br>per aspiration cycle<br>excl. freeze all cycles | 1834/11289 (16.2%)<br>(15.9% - 17.9%) |
| Delivery rate<br>per embryo transfer | 1834/8271 (22.2%)<br>(21.6% - 24.3%) |

NA=no cycles with data available.
Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

## Table 2.29 Own fresh cycles: Number of HCG+ pregnancies according to age and rank

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **< 36 (yrs)** | | | | | |
| **All Centres (N=6992, Missing=278)** | | | | | |
| Aspirations | 3471 | 1648 | 1837 | 36 | 6992 |
| Transfers | 2062 | 1007 | 1150 | 23 | 4242 |
| HCG +<br>per aspiration cycle | 957/3464 (27.6%)<br>(27.6% - 27.8%) | 444/1641 (27.1%)<br>(26.9% - 27.4%) | 486/1822 (26.7%)<br>(26.5% - 27.3%) | 6/36 (16.7%)<br>(16.7% - 16.7%) | 1893/6963 (27.2%)<br>(27.1% - 27.5%) |
| HCG +<br>per aspiration cycle<br>excl. freeze all cycles | 957/2491 (38.4%)<br>(38.3% - 38.6%) | 444/1241 (35.8%)<br>(35.6% - 36.1%) | 486/1429 (34.0%)<br>(33.7% - 34.7%) | 6/27 (22.2%)<br>(22.2% - 22.2%) | 1893/5188 (36.5%)<br>(36.3% - 36.8%) |
| HCG +<br>per embryo transfer | 957/2055 (46.6%)<br>(46.4% - 46.8%) | 444/1000 (44.4%)<br>(44.1% - 44.8%) | 486/1135 (42.8%)<br>(42.3% - 43.6%) | 6/23 (26.1%)<br>(26.1% - 26.1%) | 1893/4213 (44.9%)<br>(44.6% - 45.3%) |

NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing HCG results as negative and positive, respectively.

## Table 2.29 Own fresh cycles: Number of HCG+ pregnancies according to age and rank

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **[36-40[ (yrs)** | | | | | |
| **All Centres (N=3116, Missing=288)** | | | | | |
| Aspirations | 1168 | 717 | 1172 | 59 | 3116 |
| Transfers | 747 | 498 | 739 | 41 | 2025 |
| HCG +<br>per aspiration cycle | 250/1166 (21.4%)<br>(21.4% - 21.6%) | 178/713 (25.0%)<br>(24.8% - 25.4%) | 266/1163 (22.9%)<br>(22.7% - 23.5%) | 9/59 (15.3%)<br>(15.3% - 15.3%) | 703/3101 (22.7%)<br>(22.6% - 23.0%) |
| HCG +<br>per aspiration cycle<br>excl. freeze all cycles | 250/969 (25.8%)<br>(25.7% - 26.0%) | 178/619 (28.8%)<br>(28.6% - 29.2%) | 266/990 (26.9%)<br>(26.6% - 27.5%) | 9/58 (15.5%)<br>(15.5% - 15.5%) | 703/2636 (26.7%)<br>(26.5% - 27.1%) |
| HCG +<br>per embryo transfer | 250/745 (33.6%)<br>(33.5% - 33.7%) | 178/494 (36.0%)<br>(35.7% - 36.5%) | 266/730 (36.4%)<br>(36.0% - 37.2%) | 9/41 (22.0%)<br>(22.0% - 22.0%) | 703/2010 (35.0%)<br>(34.7% - 35.5%) |

NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing HCG results as negative and positive, respectively.

## Table 2.29 Own fresh cycles: Number of HCG+ pregnancies according to age and rank

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **[40-43[ (yrs)** | | | | | |
| **All Centres (N=2548, Missing=301)** | | | | | |
| Aspirations | 815 | 597 | 1087 | 49 | 2548 |
| Transfers | 577 | 420 | 760 | 35 | 1792 |
| HCG +<br>per aspiration cycle | 144/810 (17.8%)<br>(17.7% - 18.3%) | 106/596 (17.8%)<br>(17.8% - 17.9%) | 172/1082 (15.9%)<br>(15.8% - 16.3%) | 9/49 (18.4%)<br>(18.4% - 18.4%) | 431/2537 (17.0%)<br>(16.9% - 17.3%) |
| HCG +<br>per aspiration cycle<br>excl. freeze all cycles | 144/736 (19.6%)<br>(19.4% - 20.1%) | 106/551 (19.2%)<br>(19.2% - 19.4%) | 172/985 (17.5%)<br>(17.4% - 17.9%) | 9/46 (19.6%)<br>(19.6% - 19.6%) | 431/2318 (18.6%)<br>(18.5% - 19.0%) |
| HCG +<br>per embryo transfer | 144/572 (25.2%)<br>(25.0% - 25.8%) | 106/419 (25.3%)<br>(25.2% - 25.5%) | 172/755 (22.8%)<br>(22.6% - 23.3%) | 9/35 (25.7%)<br>(25.7% - 25.7%) | 431/1781 (24.2%)<br>(24.1% - 24.7%) |

NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing HCG results as negative and positive, respectively.

## Table 2.29 Own fresh cycles: Number of HCG+ pregnancies according to age and rank

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **>=43 (yrs)** | | | | | |
| **All Centres (N=385, Missing=113)** | | | | | |
| Aspirations | 103 | 83 | 168 | 31 | 385 |
| Transfers | 68 | 57 | 115 | 24 | 264 |
| HCG +<br>per aspiration cycle | 12/102 (11.8%)<br>(11.7% - 12.6%) | 7/82 (8.5%)<br>(8.4% - 9.6%) | 17/166 (10.2%)<br>(10.1% - 11.3%) | 3/29 (10.3%)<br>(9.7% - 16.1%) | 39/379 (10.3%)<br>(10.1% - 11.7%) |
| HCG +<br>per aspiration cycle<br>excl. freeze all cycles | 12/95 (12.6%)<br>(12.5% - 13.5%) | 7/77 (9.1%)<br>(9.0% - 10.3%) | 17/156 (10.9%)<br>(10.8% - 12.0%) | 3/28 (10.7%)<br>(10.0% - 16.7%) | 39/356 (11.0%)<br>(10.8% - 12.4%) |
| HCG +<br>per embryo transfer | 12/67 (17.9%)<br>(17.6% - 19.1%) | 7/56 (12.5%)<br>(12.3% - 14.0%) | 17/113 (15.0%)<br>(14.8% - 16.5%) | 3/22 (13.6%)<br>(12.5% - 20.8%) | 39/258 (15.1%)<br>(14.8% - 17.0%) |

NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing HCG results as negative and positive, respectively.

## Table 2.30 Own fresh cycles: Number of clinical pregnancies according to age and rank

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **< 36 (yrs)** | | | | | |
| **All Centres (N=6992, Missing=278)** | | | | | |
| Aspirations | 3471 | 1648 | 1837 | 36 | 6992 |
| Transfers | 2062 | 1007 | 1150 | 23 | 4242 |
| Clinical Pregnancy per aspiration cycle | 779/3414 (22.8%)<br>(22.4% - 24.1%) | 361/1617 (22.3%)<br>(21.9% - 23.8%) | 389/1787 (21.8%)<br>(21.2% - 23.9%) | 3/33 (9.1%)<br>(8.3% - 16.7%) | 1532/6851 (22.4%)<br>(21.9% - 23.9%) |
| Clinical Pregnancy per aspiration cycle excl. freeze all cycles | 779/2441 (31.9%)<br>(31.2% - 33.5%) | 361/1217 (29.7%)<br>(28.9% - 31.4%) | 389/1394 (27.9%)<br>(26.9% - 30.4%) | 3/24 (12.5%)<br>(11.1% - 22.2%) | 1532/5076 (30.2%)<br>(29.4% - 32.1%) |
| Clinical Pregnancy per embryo transfer | 779/2005 (38.9%)<br>(37.8% - 40.5%) | 361/976 (37.0%)<br>(35.8% - 38.9%) | 389/1100 (35.4%)<br>(33.8% - 38.2%) | 3/20 (15.0%)<br>(13.0% - 26.1%) | 1532/4101 (37.4%)<br>(36.1% - 39.4%) |

NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 2.30 Own fresh cycles: Number of clinical pregnancies according to age and rank**

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **[36-40[ (yrs)** | | | | | |
| **All Centres (N=3116, Missing=288)** | | | | | |
| Aspirations | 1168 | 717 | 1172 | 59 | 3116 |
| Transfers | 747 | 498 | 739 | 41 | 2025 |
| Clinical Pregnancy per aspiration cycle | 193/1153 (16.7%) (16.5% - 17.8%) | 141/702 (20.1%) (19.7% - 21.8%) | 220/1152 (19.1%) (18.8% - 20.5%) | 7/58 (12.1%) (11.9% - 13.6%) | 561/3065 (18.3%) (18.0% - 19.6%) |
| Clinical Pregnancy per aspiration cycle excl. freeze all cycles | 193/956 (20.2%) (19.9% - 21.4%) | 141/608 (23.2%) (22.6% - 25.0%) | 220/979 (22.5%) (22.0% - 24.0%) | 7/57 (12.3%) (12.1% - 13.8%) | 561/2600 (21.6%) (21.2% - 23.1%) |
| Clinical Pregnancy per embryo transfer | 193/732 (26.4%) (25.8% - 27.8%) | 141/483 (29.2%) (28.3% - 31.3%) | 220/719 (30.6%) (29.8% - 32.5%) | 7/40 (17.5%) (17.1% - 19.5%) | 561/1974 (28.4%) (27.7% - 30.2%) |

NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

## Table 2.30 Own fresh cycles: Number of clinical pregnancies according to age and rank

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **[40-43[ (yrs)** | | | | | |
| **All Centres (N=2548, Missing=301)** | | | | | |
| Aspirations | 815 | 597 | 1087 | 49 | 2548 |
| Transfers | 577 | 420 | 760 | 35 | 1792 |
| Clinical Pregnancy per aspiration cycle | 104/803 (13.0%) (12.8% - 14.2%) | 82/591 (13.9%) (13.7% - 14.7%) | 128/1078 (11.9%) (11.8% - 12.6%) | 8/48 (16.7%) (16.3% - 18.4%) | 322/2520 (12.8%) (12.6% - 13.7%) |
| Clinical Pregnancy per aspiration cycle excl. freeze all cycles | 104/729 (14.3%) (14.0% - 15.7%) | 82/546 (15.0%) (14.9% - 15.9%) | 128/981 (13.0%) (12.9% - 13.8%) | 8/45 (17.8%) (17.4% - 19.6%) | 322/2301 (14.0%) (13.8% - 15.0%) |
| Clinical Pregnancy per embryo transfer | 104/565 (18.4%) (18.0% - 20.1%) | 82/414 (19.8%) (19.5% - 21.0%) | 128/751 (17.0%) (16.8% - 18.0%) | 8/34 (23.5%) (22.9% - 25.7%) | 322/1764 (18.3%) (18.0% - 19.5%) |

NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 2.30 Own fresh cycles: Number of clinical pregnancies according to age and rank**

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **>=43 (yrs)** | | | | | |
| **All Centres (N=385, Missing=113)** | | | | | |
| Aspirations | 103 | 83 | 168 | 31 | 385 |
| Transfers | 68 | 57 | 115 | 24 | 264 |
| Clinical Pregnancy per aspiration cycle | 5/100 (5.0%)<br>(4.9% - 7.8%) | 4/82 (4.9%)<br>(4.8% - 6.0%) | 8/165 (4.8%)<br>(4.8% - 6.5%) | 2/29 (6.9%)<br>(6.5% - 12.9%) | 19/376 (5.1%)<br>(4.9% - 7.3%) |
| Clinical Pregnancy per aspiration cycle excl. freeze all cycles | 5/93 (5.4%)<br>(5.2% - 8.3%) | 4/77 (5.2%)<br>(5.1% - 6.4%) | 8/155 (5.2%)<br>(5.1% - 7.0%) | 2/28 (7.1%)<br>(6.7% - 13.3%) | 19/353 (5.4%)<br>(5.2% - 7.7%) |
| Clinical Pregnancy per embryo transfer | 5/65 (7.7%)<br>(7.4% - 11.8%) | 4/56 (7.1%)<br>(7.0% - 8.8%) | 8/112 (7.1%)<br>(7.0% - 9.6%) | 2/22 (9.1%)<br>(8.3% - 16.7%) | 19/255 (7.5%)<br>(7.2% - 10.6%) |

NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 2.31 Own fresh cycles: Number of clinical pregnancies including FHB according to age and rank**

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **< 36 (yrs)** | | | | | |
| **All Centres (N=6992, Missing=278)** | | | | | |
| Aspirations | 3471 | 1648 | 1837 | 36 | 6992 |
| Transfers | 2062 | 1007 | 1150 | 23 | 4242 |
| FHB: 1/2/3 | 740/6/0 | 341/0/0 | 373/5/1 | 3/0/0 | 1457/11/1 |
| Clinical Pregnancy + FHB per aspiration cycle | 746/3430 (21.7%) (21.5% - 22.7%) | 341/1623 (21.0%) (20.7% - 22.2%) | 379/1793 (21.1%) (20.6% - 23.0%) | 3/33 (9.1%) (8.3% - 16.7%) | 1469/6879 (21.4%) (21.0% - 22.6%) |
| Clinical Pregnancy + FHB per aspiration cycle excl. freeze all cycles | 746/2457 (30.4%) (29.9% - 31.5%) | 341/1223 (27.9%) (27.3% - 29.3%) | 379/1400 (27.1%) (26.2% - 29.3%) | 3/24 (12.5%) (11.1% - 22.2%) | 1469/5104 (28.8%) (28.2% - 30.3%) |
| Clinical Pregnancy + FHB per embryo transfer | 746/2021 (36.9%) (36.2% - 38.2%) | 341/982 (34.7%) (33.9% - 36.3%) | 379/1106 (34.3%) (33.0% - 36.8%) | 3/20 (15.0%) (13.0% - 26.1%) | 1469/4129 (35.6%) (34.6% - 37.3%) |

NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 2.31 Own fresh cycles: Number of clinical pregnancies including FHB according to age and rank**

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **[36-40[ (yrs)** | | | | | |
| **All Centres (N=3116, Missing=288)** | | | | | |
| Aspirations | 1168 | 717 | 1172 | 59 | 3116 |
| Transfers | 747 | 498 | 739 | 41 | 2025 |
| FHB: 1/2/3 | 175/1/1 | 133/0/0 | 201/2/0 | 6/0/0 | 515/3/1 |
| Clinical Pregnancy + FHB per aspiration cycle | 177/1154 (15.3%) (15.2% - 16.4%) | 133/706 (18.8%) (18.5% - 20.1%) | 203/1152 (17.6%) (17.3% - 19.0%) | 6/59 (10.2%) (10.2% - 10.2%) | 519/3071 (16.9%) (16.7% - 18.1%) |
| Clinical Pregnancy + FHB per aspiration cycle excl. freeze all cycles | 177/957 (18.5%) (18.2% - 19.7%) | 133/612 (21.7%) (21.3% - 23.1%) | 203/979 (20.7%) (20.3% - 22.3%) | 6/58 (10.3%) (10.3% - 10.3%) | 519/2606 (19.9%) (19.6% - 21.3%) |
| Clinical Pregnancy + FHB per embryo transfer | 177/733 (24.1%) (23.7% - 25.6%) | 133/487 (27.3%) (26.7% - 28.9%) | 203/719 (28.2%) (27.5% - 30.2%) | 6/41 (14.6%) (14.6% - 14.6%) | 519/1980 (26.2%) (25.6% - 27.9%) |

NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 2.31 Own fresh cycles: Number of clinical pregnancies including FHB according to age and rank**

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **[40-43[ (yrs)** | | | | | |
| **All Centres (N=2548, Missing=301)** | | | | | |
| Aspirations | 815 | 597 | 1087 | 49 | 2548 |
| Transfers | 577 | 420 | 760 | 35 | 1792 |
| FHB: 1/2/3 | 93/2/0 | 76/0/0 | 111/1/0 | 5/0/0 | 285/3/0 |
| Clinical Pregnancy + FHB per aspiration cycle | 95/805 (11.8%) (11.7% - 12.9%) | 76/592 (12.8%) (12.7% - 13.6%) | 112/1080 (10.4%) (10.3% - 10.9%) | 5/49 (10.2%) (10.2% - 10.2%) | 288/2526 (11.4%) (11.3% - 12.2%) |
| Clinical Pregnancy + FHB per aspiration cycle excl. freeze all cycles | 95/731 (13.0%) (12.8% - 14.2%) | 76/547 (13.9%) (13.8% - 14.7%) | 112/983 (11.4%) (11.3% - 12.0%) | 5/46 (10.9%) (10.9% - 10.9%) | 288/2307 (12.5%) (12.4% - 13.3%) |
| Clinical Pregnancy + FHB per embryo transfer | 95/567 (16.8%) (16.5% - 18.2%) | 76/415 (18.3%) (18.1% - 19.3%) | 112/753 (14.9%) (14.7% - 15.7%) | 5/35 (14.3%) (14.3% - 14.3%) | 288/1770 (16.3%) (16.1% - 17.3%) |

NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 2.31 Own fresh cycles: Number of clinical pregnancies including FHB according to age and rank**

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **>=43 (yrs)** | | | | | |
| **All Centres (N=385, Missing=113)** | | | | | |
| Aspirations | 103 | 83 | 168 | 31 | 385 |
| Transfers | 68 | 57 | 115 | 24 | 264 |
| FHB: 1/2/3 | 4/0/0 | 4/0/0 | 7/0/0 | 2/0/0 | 17/0/0 |
| Clinical Pregnancy + FHB per aspiration cycle | 4/100 (4.0%) (3.9% - 6.8%) | 4/82 (4.9%) (4.8% - 6.0%) | 7/166 (4.2%) (4.2% - 5.4%) | 2/29 (6.9%) (6.5% - 12.9%) | 17/377 (4.5%) (4.4% - 6.5%) |
| Clinical Pregnancy + FHB per aspiration cycle excl. freeze all cycles | 4/93 (4.3%) (4.2% - 7.3%) | 4/77 (5.2%) (5.1% - 6.4%) | 7/156 (4.5%) (4.4% - 5.7%) | 2/28 (7.1%) (6.7% - 13.3%) | 17/354 (4.8%) (4.7% - 6.9%) |
| Clinical Pregnancy + FHB per embryo transfer | 4/65 (6.2%) (5.9% - 10.3%) | 4/56 (7.1%) (7.0% - 8.8%) | 7/113 (6.2%) (6.1% - 7.8%) | 2/22 (9.1%) (8.3% - 16.7%) | 17/256 (6.6%) (6.4% - 9.5%) |

NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

## Table 2.32 Own fresh cycles: Number of deliveries according to age and rank

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **< 36 (yrs)** | | | | | |
| **All Centres (N=6992, Missing=278)** | | | | | |
| Aspirations | 3471 | 1648 | 1837 | 36 | 6992 |
| Transfers | 2062 | 1007 | 1150 | 23 | 4242 |
| Number per delivery: 1/2/3 | 619/10/0 | 269/18/0 | 284/29/0 | 2/0/0 | 1174/57/0 |
| Delivery rate per aspiration cycle | 629/3411 (18.4%) (18.1% - 19.9%) | 287/1612 (17.8%) (17.4% - 19.6%) | 313/1784 (17.5%) (17.0% - 19.9%) | 2/33 (6.1%) (5.6% - 13.9%) | 1231/6840 (18.0%) (17.6% - 19.8%) |
| Delivery rate per aspiration cycle excl. freeze all cycles | 629/2438 (25.8%) (25.2% - 27.6%) | 287/1212 (23.7%) (23.0% - 25.9%) | 313/1391 (22.5%) (21.7% - 25.3%) | 2/24 (8.3%) (7.4% - 18.5%) | 1231/5065 (24.3%) (23.6% - 26.5%) |
| Delivery rate per embryo transfer | 629/2002 (31.4%) (30.5% - 33.4%) | 287/971 (29.6%) (28.5% - 32.1%) | 313/1097 (28.5%) (27.2% - 31.8%) | 2/20 (10.0%) (8.7% - 21.7%) | 1231/4090 (30.1%) (29.0% - 32.6%) |

NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing delivery as negative and positive, respectively.

**Table 2.32 Own fresh cycles: Number of deliveries according to age and rank**

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **[36-40[ (yrs)** | | | | | |
| **All Centres (N=3116, Missing=288)** | | | | | |
| Aspirations | 1168 | 717 | 1172 | 59 | 3116 |
| Transfers | 747 | 498 | 739 | 41 | 2025 |
| Number per delivery: 1/2/3 | 121/9/0 | 91/7/0 | 130/21/0 | 6/0/0 | 348/37/0 |
| Delivery rate<br>per aspiration cycle | 130/1151 (11.3%)<br>(11.1% - 12.6%) | 98/706 (13.9%)<br>(13.7% - 15.2%) | 151/1154 (13.1%)<br>(12.9% - 14.4%) | 6/59 (10.2%)<br>(10.2% - 10.2%) | 385/3070 (12.5%)<br>(12.4% - 13.8%) |
| Delivery rate<br>per aspiration cycle<br>excl. freeze all cycles | 130/954 (13.6%)<br>(13.4% - 15.1%) | 98/612 (16.0%)<br>(15.7% - 17.5%) | 151/981 (15.4%)<br>(15.1% - 16.9%) | 6/58 (10.3%)<br>(10.3% - 10.3%) | 385/2605 (14.8%)<br>(14.5% - 16.3%) |
| Delivery rate<br>per embryo transfer | 130/730 (17.8%)<br>(17.4% - 19.7%) | 98/487 (20.1%)<br>(19.7% - 21.9%) | 151/721 (20.9%)<br>(20.4% - 22.9%) | 6/41 (14.6%)<br>(14.6% - 14.6%) | 385/1979 (19.5%)<br>(19.0% - 21.3%) |

NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing delivery as negative and positive, respectively.

## Table 2.32 Own fresh cycles: Number of deliveries according to age and rank

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **[40-43[ (yrs)** | | | | | |
| **All Centres (N=2548, Missing=301)** | | | | | |
| Aspirations | 815 | 597 | 1087 | 49 | 2548 |
| Transfers | 577 | 420 | 760 | 35 | 1792 |
| Number per delivery: 1/2/3 | 54/4/0 | 51/5/0 | 63/3/0 | 4/0/0 | 172/12/0 |
| Delivery rate<br>per aspiration cycle | 58/803 (7.2%)<br>(7.1% - 8.6%) | 56/593 (9.4%)<br>(9.4% - 10.1%) | 66/1077 (6.1%)<br>(6.1% - 7.0%) | 4/49 (8.2%)<br>(8.2% - 8.2%) | 184/2522 (7.3%)<br>(7.2% - 8.2%) |
| Delivery rate<br>per aspiration cycle<br>excl. freeze all cycles | 58/729 (8.0%)<br>(7.8% - 9.4%) | 56/548 (10.2%)<br>(10.1% - 10.9%) | 66/980 (6.7%)<br>(6.7% - 7.7%) | 4/46 (8.7%)<br>(8.7% - 8.7%) | 184/2303 (8.0%)<br>(7.9% - 9.0%) |
| Delivery rate<br>per embryo transfer | 58/565 (10.3%)<br>(10.1% - 12.1%) | 56/416 (13.5%)<br>(13.3% - 14.3%) | 66/750 (8.8%)<br>(8.7% - 10.0%) | 4/35 (11.4%)<br>(11.4% - 11.4%) | 184/1766 (10.4%)<br>(10.3% - 11.7%) |

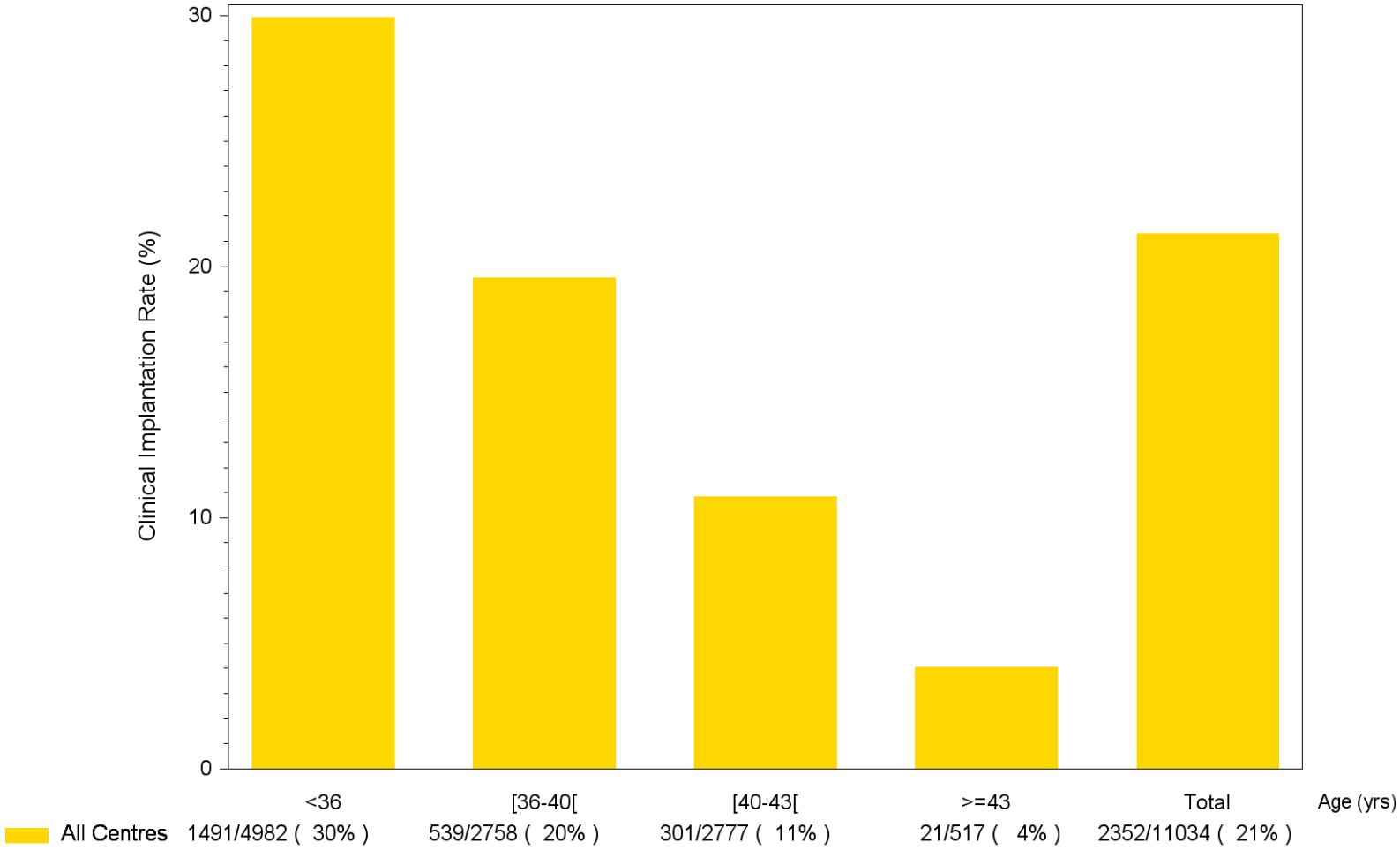
NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing delivery as negative and positive, respectively.

**Table 2.32 Own fresh cycles: Number of deliveries according to age and rank**

| Rank | 1 | 2 | 3-6 | >=7 | Total |
|---|---|---|---|---|---|
| **>=43 (yrs)** | | | | | |
| **All Centres (N=385, Missing=113)** | | | | | |
| Aspirations | 103 | 83 | 168 | 31 | 385 |
| Transfers | 68 | 57 | 115 | 24 | 264 |
| Number per delivery: 1/2/3 | 2/0/0 | 2/0/0 | 2/1/0 | 1/0/0 | 7/1/0 |
| Delivery rate per aspiration cycle | 2/99 (2.0%) (1.9% - 5.8%) | 2/82 (2.4%) (2.4% - 3.6%) | 3/166 (1.8%) (1.8% - 3.0%) | 1/29 (3.4%) (3.2% - 9.7%) | 8/376 (2.1%) (2.1% - 4.4%) |
| Delivery rate per aspiration cycle excl. freeze all cycles | 2/92 (2.2%) (2.1% - 6.3%) | 2/77 (2.6%) (2.6% - 3.8%) | 3/156 (1.9%) (1.9% - 3.2%) | 1/28 (3.6%) (3.3% - 10.0%) | 8/353 (2.3%) (2.2% - 4.7%) |
| Delivery rate per embryo transfer | 2/64 (3.1%) (2.9% - 8.8%) | 2/56 (3.6%) (3.5% - 5.3%) | 3/113 (2.7%) (2.6% - 4.3%) | 1/22 (4.5%) (4.2% - 12.5%) | 8/255 (3.1%) (3.0% - 6.4%) |

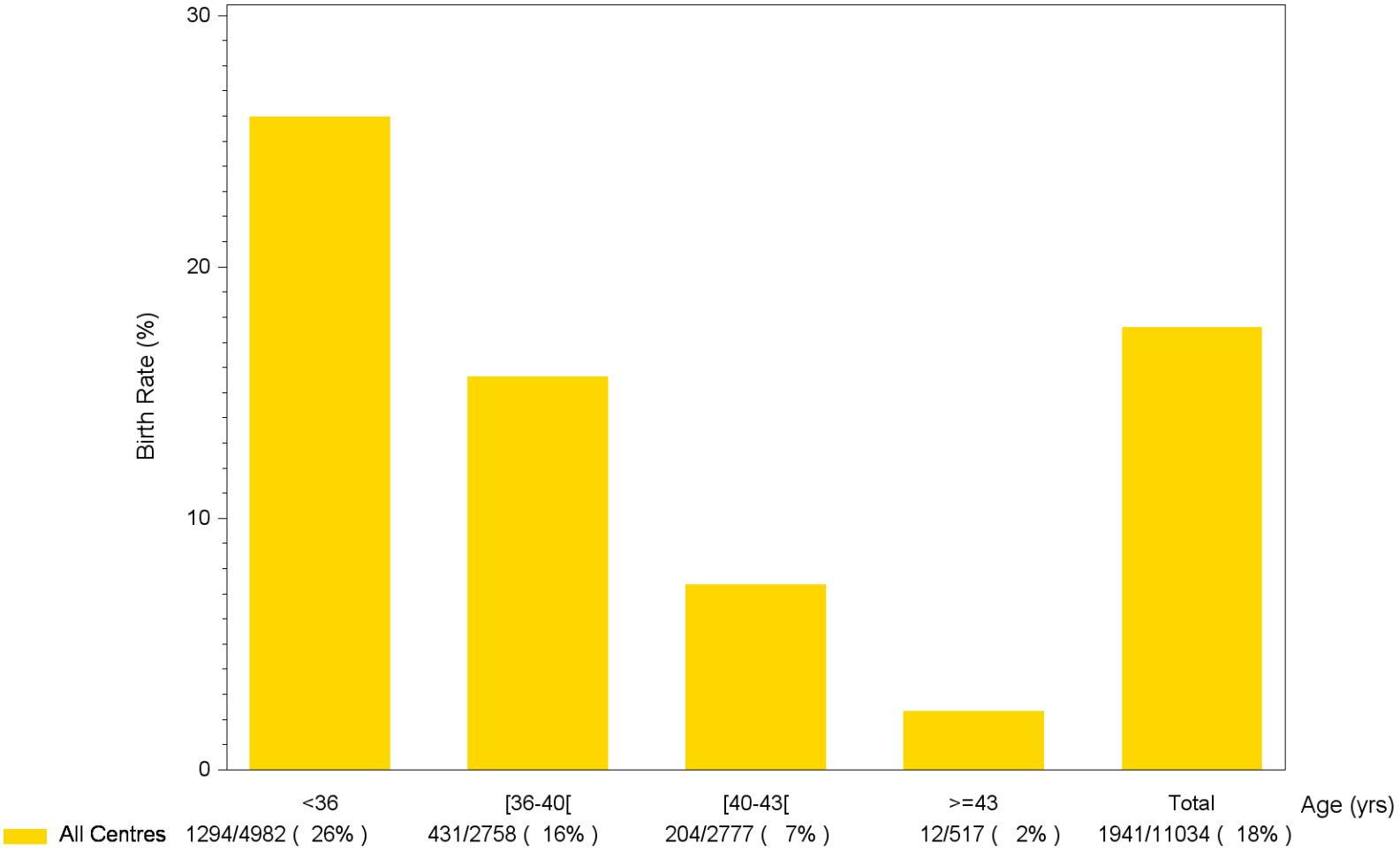
NA=no cycles with data available. Results do not include surrogate cycles.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing delivery as negative and positive, respectively.

**Figure 2.33 Own fresh cycles: Clinical implantation rate (No. of FHB) per transferred embryo according to age**



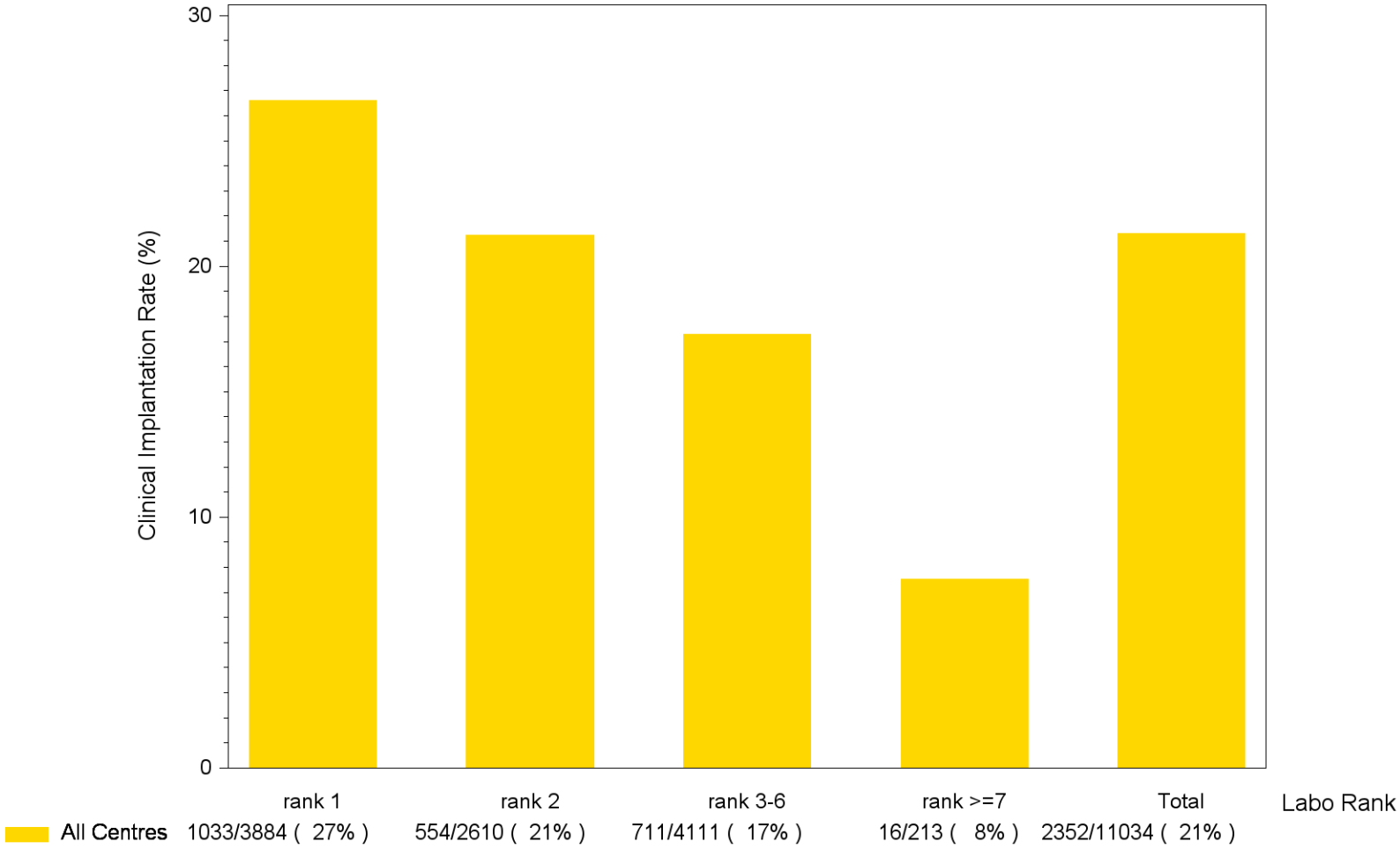

n/N (%) where n = Total number of FHB; N = Total number of embryos transferred; %= n*100/N; NA = No cycles with data available.
Results do not include surrogate cycles.

**Figure 2.34 Own fresh cycles: Birth rate per transferred embryo according to age**



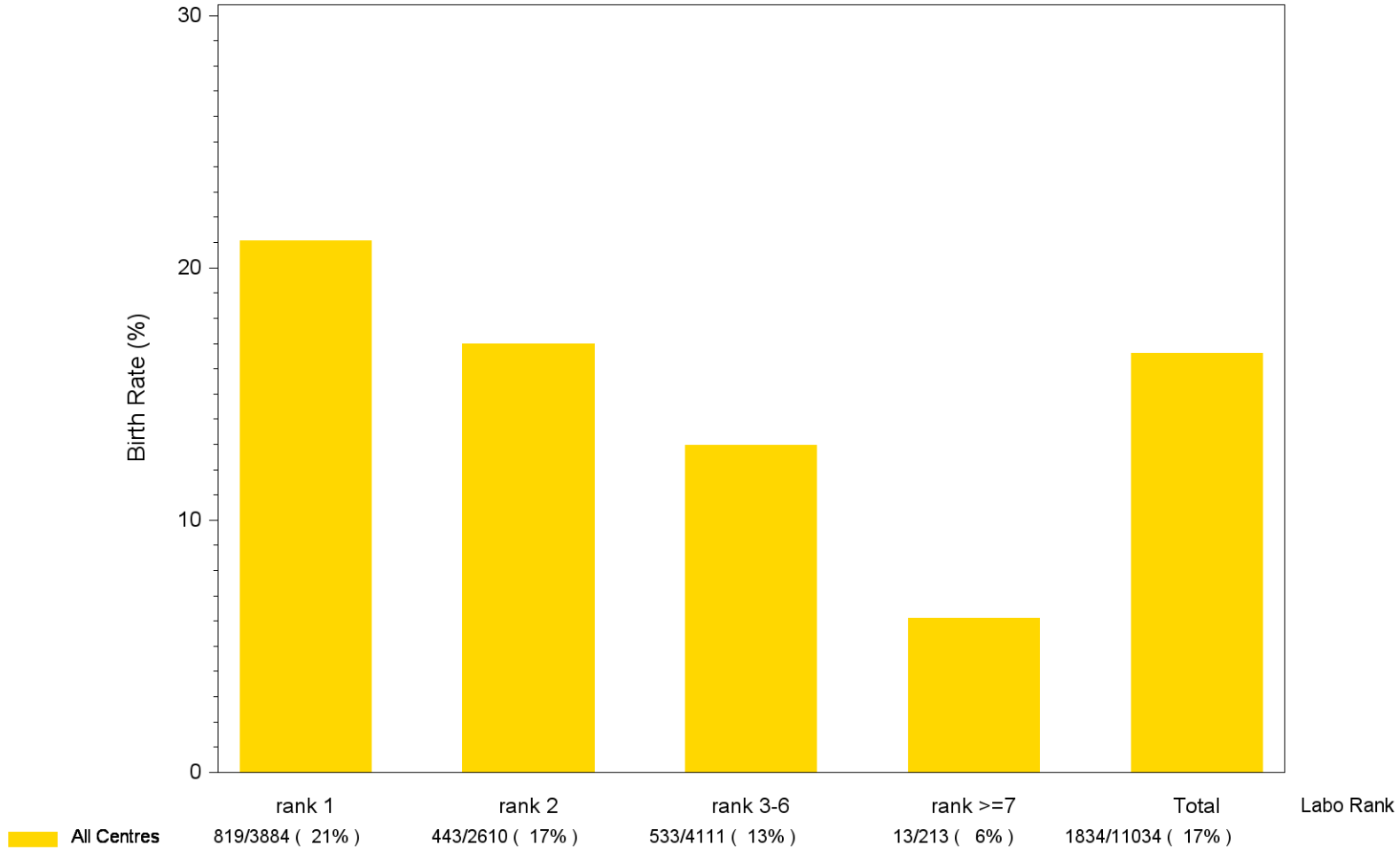

n/N (%) where n = Total number of babies; N = Total number of embryos transferred; %= n*100/N; NA = No cycles with data available.
Results do not include surrogate cycles.

**Figure 2.35 Own fresh cycles: Clinical implantation rate (No. of FHB) per transferred embryo according to rank**



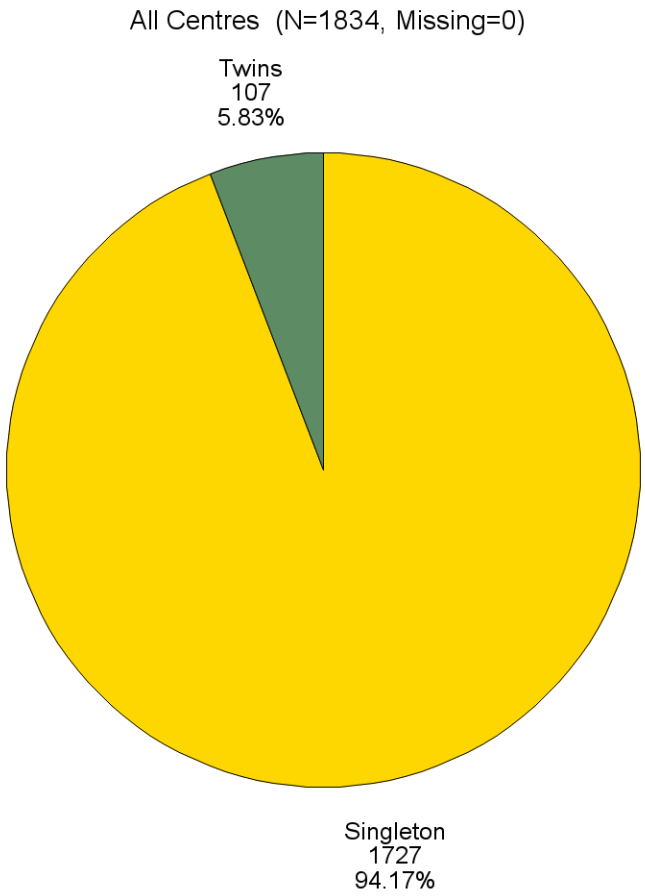

n/N (%) where n = Total number of FHB; N = Total number of embryos transferred; %= n*100/N; NA = No cycles with data available.
Results do not include surrogate cycles.

**Figure 2.36 Own fresh cycles: Birth rate per transferred embryo according to rank**




n/N (%) where n = Total number of births; N = Total number of embryos transferred; %= n*100/N; NA = No cycles with data available.
Results do not include surrogate cycles.

**Figure 2.37 Own fresh cycles: Number of deliveries**



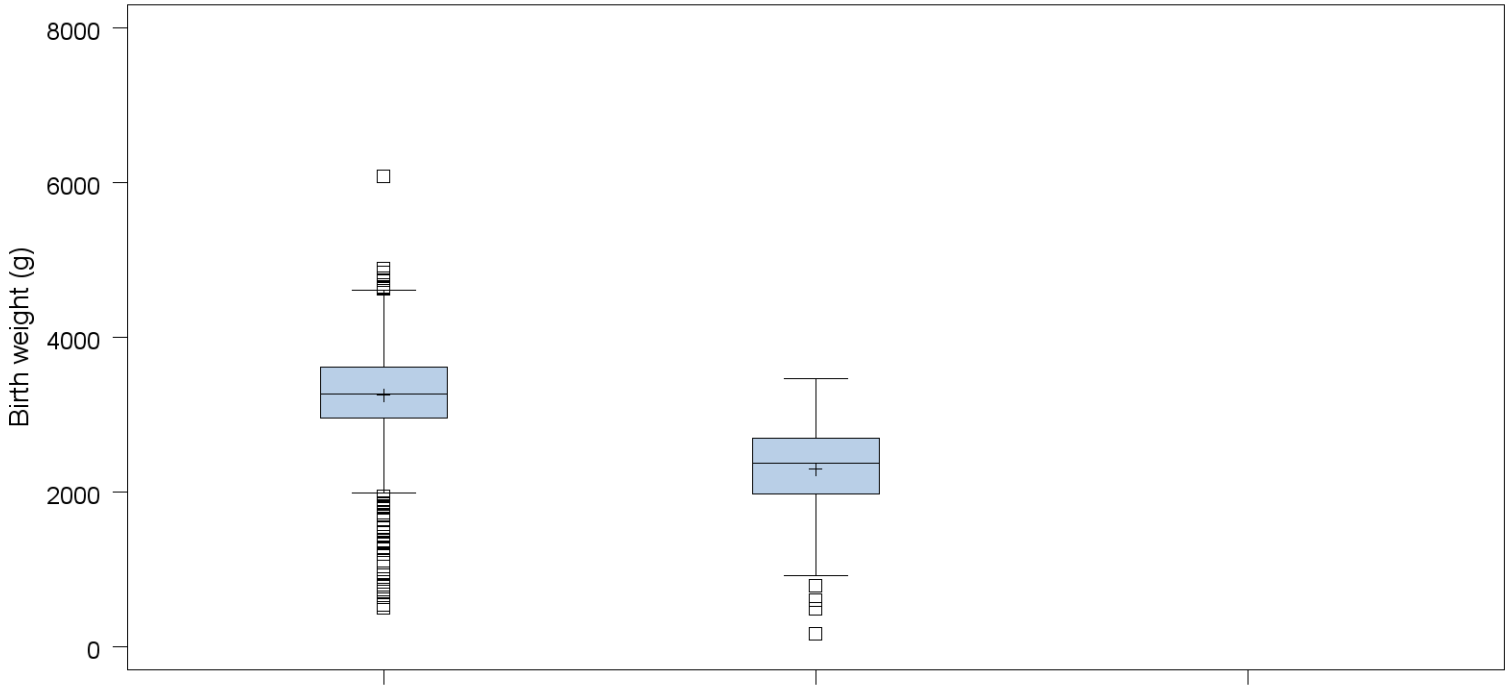

Deliveries of twins or triplets are only counted once. Results do not include surrogate cycles.

## Table 2.38 Own fresh cycles: Sex of babies

| | All Centres (N=1941, Missing=0) |
|---|---|
| **Sex of baby** | |
| Male | 965/1941 ( 49.72%) |
| Female | 943/1941 ( 48.58%) |
| Unknown | 33/1941 ( 1.70%) |

Results do not include surrogate cycles.

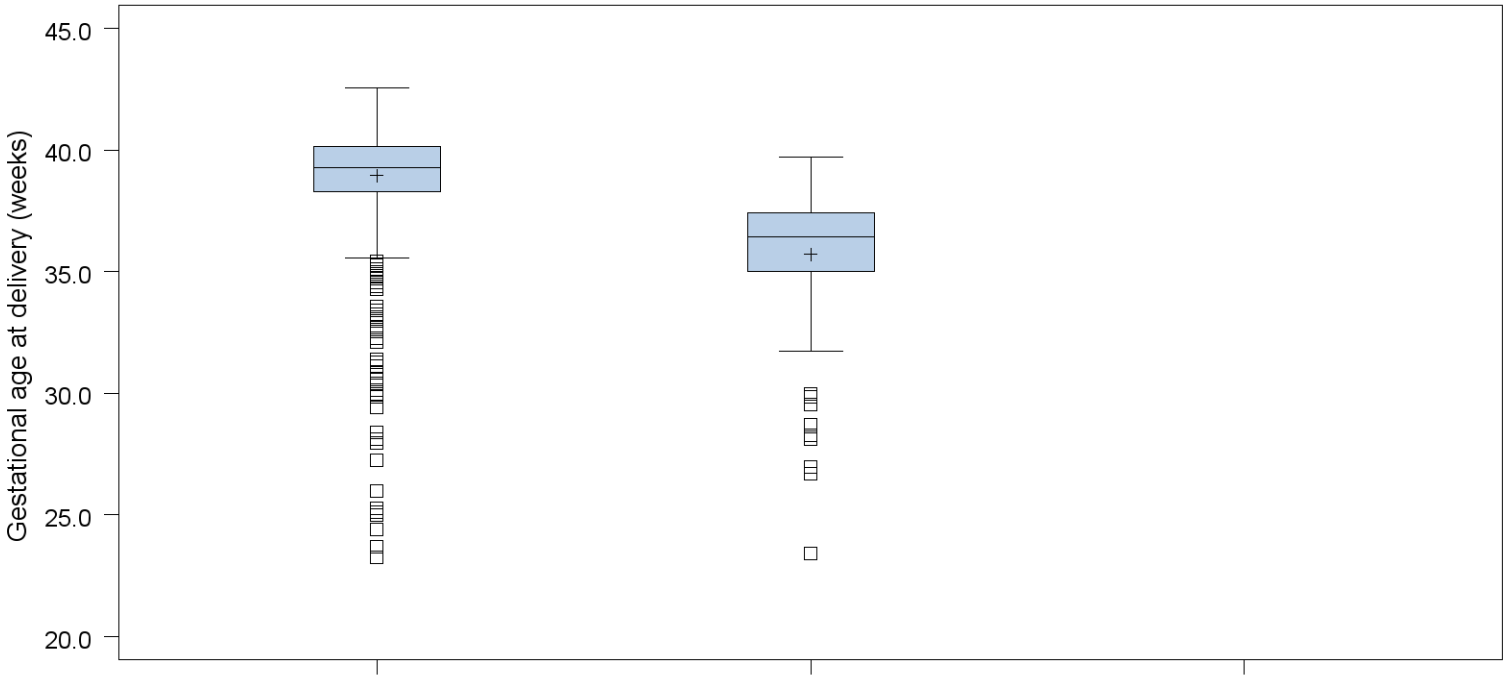
**Figure 2.39 Own fresh cycles: Birth weight (boxplot)**




| | All Centres | |
|---|---|---|
| N | 1678 | 208 |
| Missing | 49 | 6 |
| Mean | 3251.0 | 2300.6 |
| SD | 556.61 | 598.81 |
| Median | 3270.0 | 2370.0 |
| (Min,Max) | (510,6090) | (170,3470) |
| (Q1,Q3) | (2954,3620) | (1970,2695) |

Box plot shows median and interquartile range. Whiskers are drawn at (Q3+1.5*IQR, Q1-1.5*IQR).
Q1, Q3 = 1st and 3rd quartile, IQR = Q3 - Q1. +-sign indicates mean value.
Results do not include surrogate cycles.

**Figure 2.40 Own fresh cycles: Gestational age at delivery (boxplot)**




| | All Centres | | |
|---|---|---|---|
| N | 1720 | 107 | |
| Missing | 7 | 0 | |
| Mean | 39.0 | 35.7 | |
| SD | 1.95 | 2.85 | |
| Median | 39.3 | 36.4 | |
| (Min,Max) | (23,43) | (23,40) | |
| (Q1,Q3) | (38,40) | (35,37) | |

Box plot shows median and interquartile range. Whiskers are drawn at (Q3+1.5*IQR, Q1-1.5*IQR).
Q1, Q3 = 1st and 3rd quartile, IQR = Q3 - Q1. +-sign indicates mean value.
Twin or triplet birth is counted as one birth event.
Results do not include surrogate cycles.

**Table 2.41 Own fresh cycles: Prevalence of preterm birth according to type of pregnancy**

| Gestational age at delivery (weeks) | Type of pregnancy: Single birth event | | Twin birth event | | Triplet birth event | Total birth events | |
|---|---|---|---|---|---|---|---|
| **All Centres (N=1827, Missing=7)** | | | | | | | |
| < 32 | 24 | (1.4%) | 10 | (9.3%) | 0 | 34 | (1.9%) |
| [32-37[ | 119 | (6.9%) | 53 | (49.5%) | 0 | 172 | (9.4%) |
| >=37 | 1577 | (91.7%) | 44 | (41.1%) | 0 | 1621 | (88.7%) |
| Total | 1720 | (100.0%) | 107 | (100.0%) | 0 | 1827 | (100.0%) |

Twin or triplet birth is counted as one birth event. Results do not include surrogate cycles.

**Table 2.42 Own fresh cycles: Prevalence of low birth weight according to type of pregnancy**

| | Type of pregnancy | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Birth weight (g)** | **Singletons** | | **Twins** | | **Triplets** | **Total** | | |
| **All Centres (N=1886, Missing=55)** | | | | | | | | |
| < 1500 | 23 | (1.4%) | 23 | (11.1%) | 0 | 46 | (2.4%) | |
| [1500-2500[ | 90 | (5.4%) | 98 | (47.1%) | 0 | 188 | (10.0%) | |
| >= 2500 | 1565 | (93.3%) | 87 | (41.8%) | 0 | 1652 | (87.6%) | |
| Total | 1678 | (100.0%) | 208 | (100.0%) | 0 | 1886 | (100.0%) | |

Results do not include surrogate cycles.

**Figure 2.43 Own fresh cycles: Evolution of number of embryos transferred**

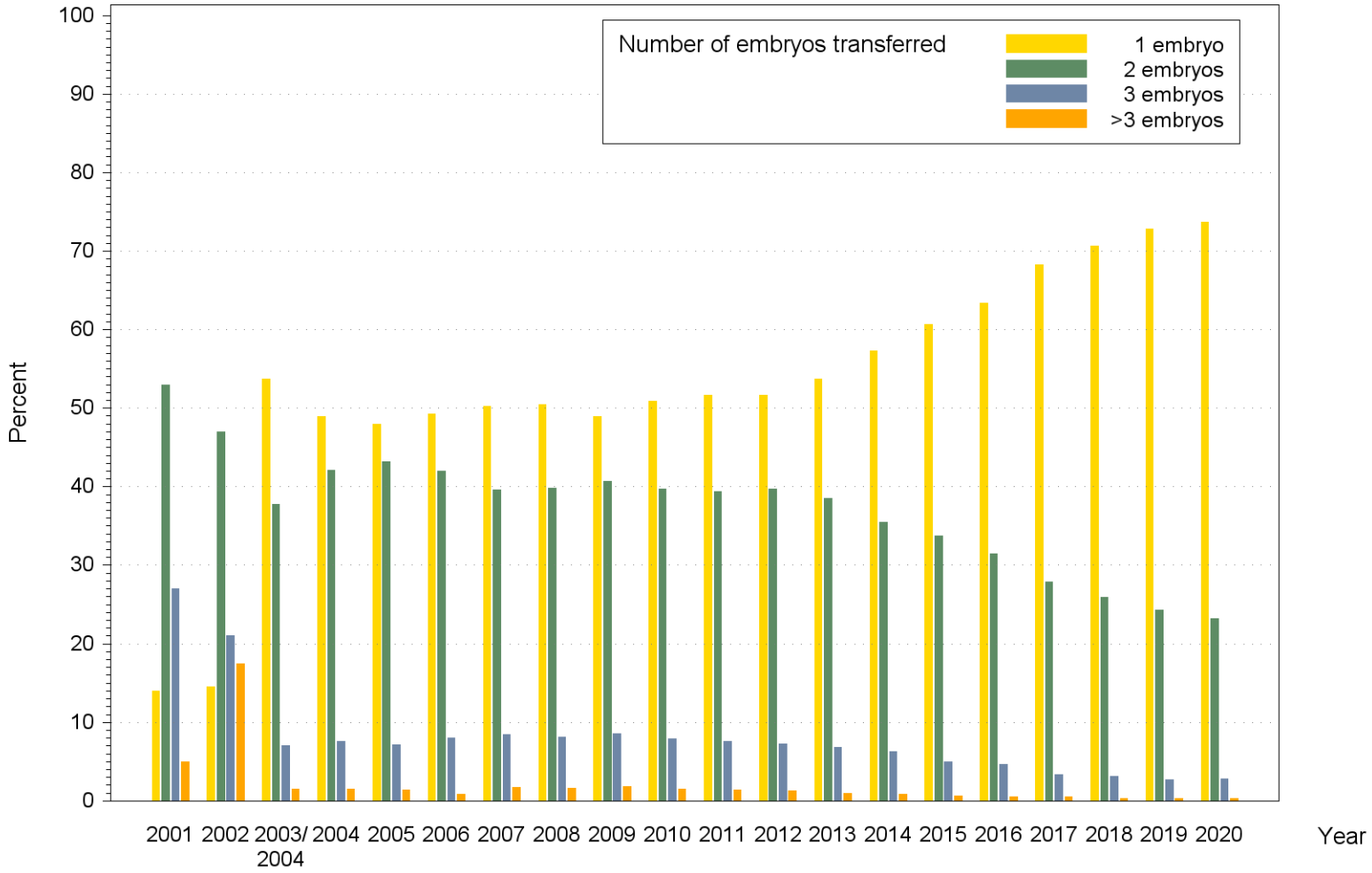
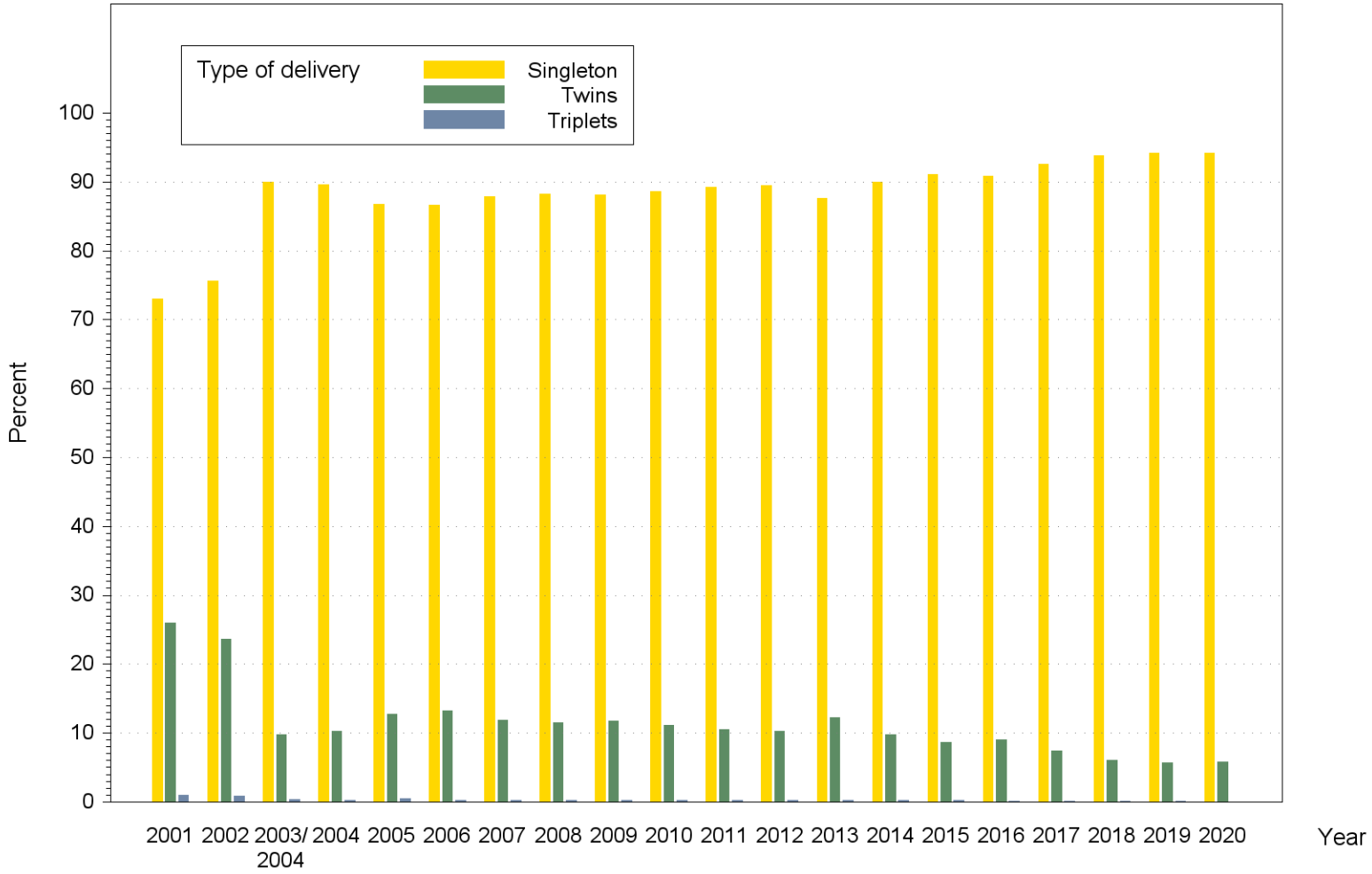


**Figure 2.44 Own fresh cycles: Evolution of number of single and multiple deliveries**



## Table 2.45 Own fresh cycles: Complications

| | | Statistic | All Centres (N=14948, Missing=762) |
|---|---|---|---|
| **Complications** | | | |
| Yes | n/N (%) | | 68/14948 ( 0.45%) |
| No | n/N (%) | | 14046/14948 ( 93.97%) |
| Unknown | n/N (%) | | 834/14948 ( 5.58%) |
| **Complication: Thrombosis** | | | |
| No | n/N (%) | | 63/68 ( 92.65%) |
| Unknown | n/N (%) | | 5/68 ( 7.35%) |
| **Complication: OHSS Severe (Grade III-IV)** | | | |
| Yes | n/N (%) | | 29/68 ( 42.65%) |
| No | n/N (%) | | 37/68 ( 54.41%) |
| Unknown | n/N (%) | | 2/68 ( 2.94%) |
| **Complication: Infection (PID)** | | | |
| Yes | n/N (%) | | 13/68 ( 19.12%) |
| No | n/N (%) | | 50/68 ( 73.53%) |
| Unknown | n/N (%) | | 5/68 ( 7.35%) |
| **Complication: Bleeding** | | | |
| Yes | n/N (%) | | 6/68 ( 8.82%) |
| No | n/N (%) | | 59/68 ( 86.76%) |
| Unknown | n/N (%) | | 3/68 ( 4.41%) |

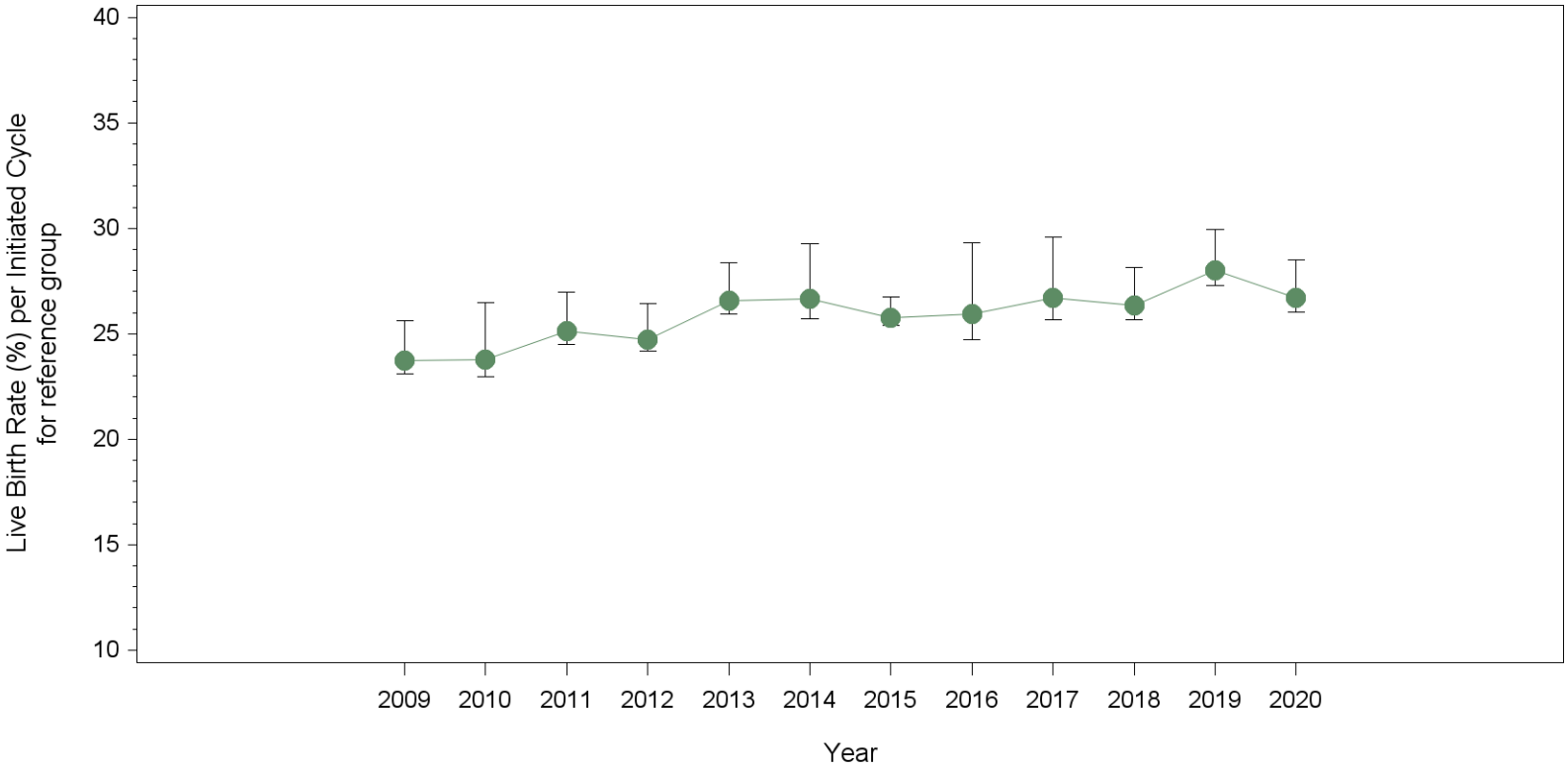
Note: A patient can have more than one complication. Results do not include surrogate cycles.

## Table 2.45 Own fresh cycles: Complications

| | Statistic | All Centres (N=14948, Missing=762) |
|---|---|---|
| **Complication: Death (mother)** | | |
| No | n/N (%) | 61/68 ( 89.71%) |
| Unknown | n/N (%) | 7/68 ( 10.29%) |
| **Complication: Other** | | |
| Yes | n/N (%) | 24/68 ( 35.29%) |
| No | n/N (%) | 37/68 ( 54.41%) |
| Unknown | n/N (%) | 7/68 ( 10.29%) |

Note: A patient can have more than one complication. Results do not include surrogate cycles.

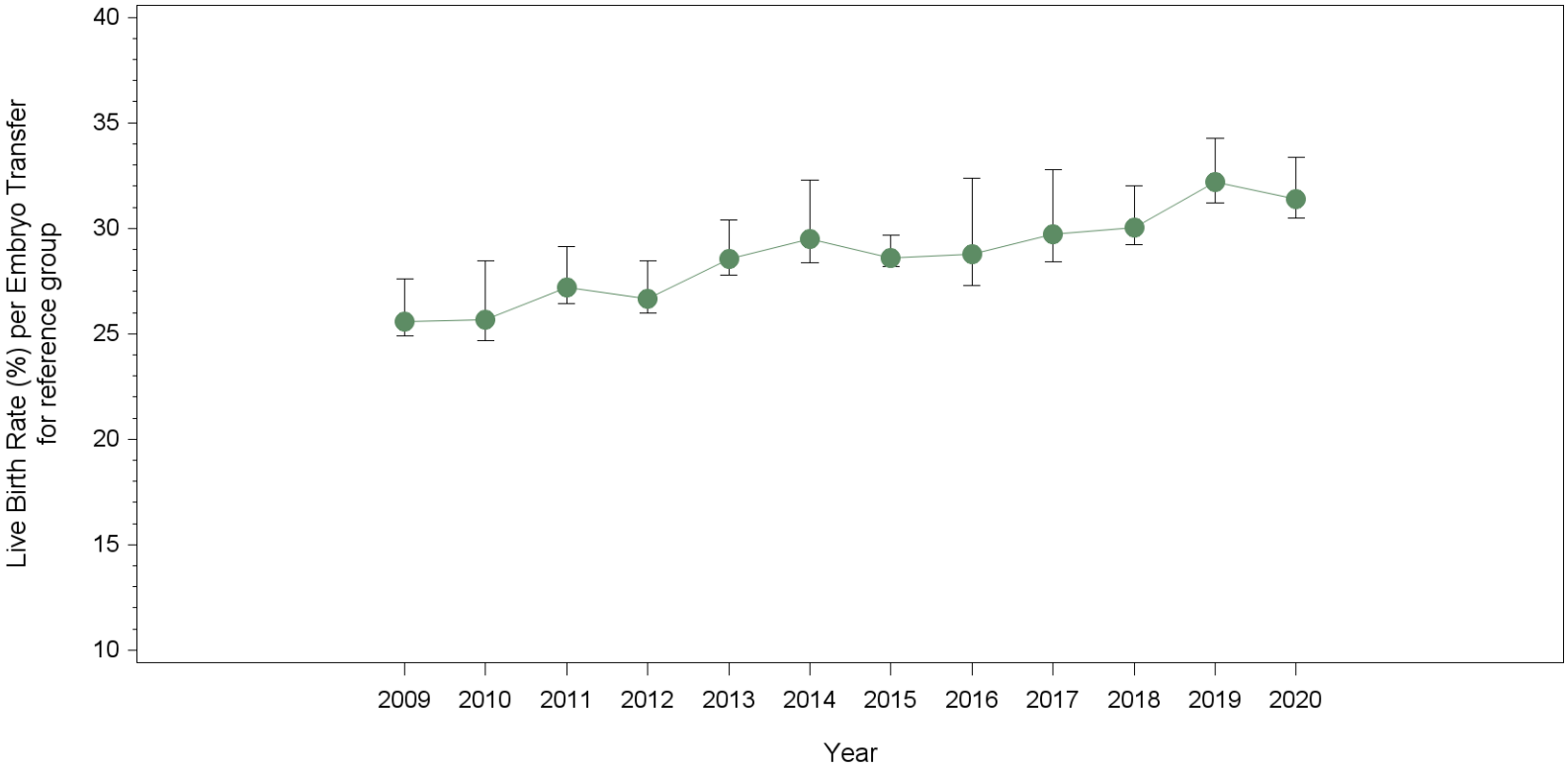
**Figure 2.46 Own fresh cycles: Live birth rate per initiated cycle for reference group***




| Rate of Birth | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Best Birth Rate | 25.64% | 26.45% | 26.98% | 26.45% | 28.37% | 29.24% | 26.73% | 29.33% | 29.58% | 28.15% | 29.94% | 28.49% |
| Overall Birth Rate | 23.72% | 23.78% | 25.10% | 24.73% | 26.57% | 26.64% | 25.75% | 25.92% | 26.70% | 26.33% | 28.01% | 26.68% |
| Worst Birth Rate | 23.12% | 22.95% | 24.47% | 24.16% | 25.92% | 25.69% | 25.40% | 24.72% | 25.64% | 25.68% | 27.26% | 26.02% |

* Results only include own fresh cycles from women less than 36 years old with rank 1 excluding PGD and freeze all cycles.
In the calculation of the rates, only cycles with available data are considered. The whiskers express the minimum and maximum possible rates when accounting for missing data by considering missing delivery as negative and positive, respectively.
For 2015 to 2020, results do not include surrogate cycles. Cycles up to 2015 may include IVM cycles.

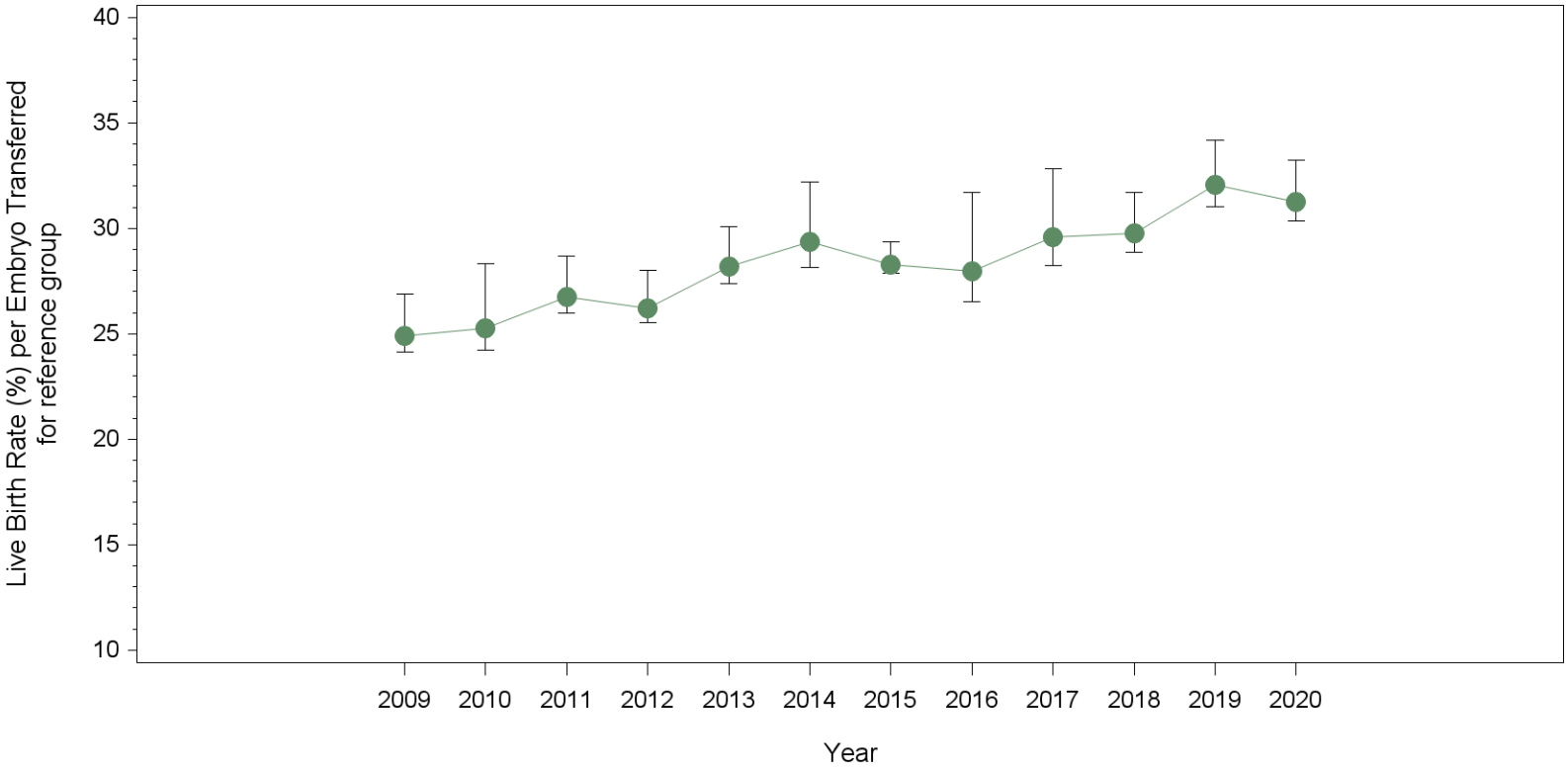
**Figure 2.47 Own fresh cycles: Live birth rate per embryo transfer for reference group***




| Rate of Birth | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Best Birth Rate | 27.61% | 28.45% | 29.13% | 28.43% | 30.41% | 32.28% | 29.66% | 32.38% | 32.80% | 32.02% | 34.28% | 33.37% |
| Overall Birth Rate | 25.59% | 25.65% | 27.18% | 26.65% | 28.53% | 29.51% | 28.60% | 28.76% | 29.73% | 30.05% | 32.21% | 31.39% |
| Worst Birth Rate | 24.90% | 24.68% | 26.45% | 26.00% | 27.79% | 28.36% | 28.18% | 27.29% | 28.43% | 29.21% | 31.22% | 30.48% |

* Results only include own fresh cycles from women less than 36 years old with rank 1 excluding PGD cycles.
In the calculation of the rates, only cycles with available data are considered. The whiskers express the minimum and maximum possible rates when accounting for missing data by considering missing delivery as negative and positive, respectively.
For 2015 to 2020, results do not include surrogate cycles. Cycles up to 2015 may include IVM cycles.

**Figure 2.48 Own fresh cycles: Live birth rate per embryo transferred for reference group***




| Rate of Birth | . | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Best Birth Rate | 100.00% | 26.90% | 28.34% | 28.70% | 28.00% | 30.09% | 32.20% | 29.36% | 31.71% | 32.81% | 31.72% | 34.18% | 33.22% |
| Overall Birth Rate | 100.00% | 24.90% | 25.28% | 26.75% | 26.19% | 28.17% | 29.34% | 28.29% | 27.98% | 29.60% | 29.76% | 32.04% | 31.26% |
| Worst Birth Rate | 100.00% | 24.14% | 24.20% | 25.96% | 25.53% | 27.39% | 28.13% | 27.87% | 26.52% | 28.25% | 28.87% | 31.00% | 30.35% |

* Results only include own fresh cycles from women less than 36 years old with rank 1 excluding PGD cycles.
In the calculation of the rates, only cycles with available data are considered. The whiskers express the minimum and maximum possible rates when accounting for missing data by considering missing delivery as negative and positive, respectively.
For 2015 to 2020, results do not include surrogate cycles. Cycles up to 2015 may include IVM cycles.

## Section 3: Own embryo cryo cycles

### Table 3.1 Own embryo cryo cycles: Overview of cryo cycles

| Cryo cycle | All Centres | |
|---|---|---|
| Initiated | 14491 | (100.0%) |
| Cancelled | 1871 | (12.9%) |
| Thawed | 12620 | (87.1%) |
| Embryo Transfer | 12163 | (83.9%) |

**Table 3.2 Own embryo cryo cycles: Number of embryos transferred**

| | All Centres |
|---|---|
| **Number of cycles with transfer** | 12163 |
| **Number of embryos transferred** | |
| 1 | 10932/12156 ( 89.93%) |
| 2 | 1222/12156 ( 10.05%) |
| 3 | 2/12156 ( 0.02%) |
| **Total number of embryos transferred** | 13382 |

Based on all cycles with at least one embryo transferred.

**Table 3.3 Own embryo cryo cycles: Pituitary inhibition**

| | Statistic | All Centres (N=14406, Missing=85) |
|---|---|---|
| **Pituitary inhibition** | | |
| Yes | n/N (%) | 42/14406 ( 0.29%) |
| No | n/N (%) | 14364/14406 ( 99.71%) |

**Table 3.4 Own embryo cryo cycles: Stimulation protocol**

| | Statistic | All Centres (N=14491) |
|---|---|---|
| Stimulation with clomiphene | n/N (%) | 35/12532 ( 0.28%) |
| Stimulation with gonadotrophins | n/N (%) | 183/12579 ( 1.45%) |
| Substitution cycle | n/N (%) | 5407/13350 ( 40.50%) |
| Spontaneous/modified cycle | n/N (%) | 5192/13291 ( 39.06%) |
| Other stimulation | n/N (%) | 378/13352 ( 2.83%) |

Percentages do not sum up to 100% due to missing data.

**Table 3.5 Own embryo cryo cycles: Number of HCG+ pregnancies according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=14491, Missing=0)** | | | | | |
| Initiated cycles | 9165 | 3186 | 1626 | 514 | 14491 |
| Thawed cycles | 8079 | 2748 | 1394 | 399 | 12620 |
| Transfers | 7829 | 2630 | 1327 | 377 | 12163 |
| HCG +<br>per initiated cycle | 3385/9127 (37.1%)<br>(36.9% - 37.3%) | 1041/3178 (32.8%)<br>(32.7% - 32.9%) | 374/1620 (23.1%)<br>(23.0% - 23.4%) | 81/509 (15.9%)<br>(15.8% - 16.7%) | 4881/14434 (33.8%)<br>(33.7% - 34.1%) |
| HCG +<br>per thawing cycle | 3385/8041 (42.1%)<br>(41.9% - 42.4%) | 1041/2740 (38.0%)<br>(37.9% - 38.2%) | 374/1388 (26.9%)<br>(26.8% - 27.3%) | 81/394 (20.6%)<br>(20.3% - 21.6%) | 4881/12563 (38.9%)<br>(38.7% - 39.1%) |
| HCG +<br>per embryo transfer | 3385/7791 (43.4%)<br>(43.2% - 43.7%) | 1041/2622 (39.7%)<br>(39.6% - 39.9%) | 374/1321 (28.3%)<br>(28.2% - 28.6%) | 81/372 (21.8%)<br>(21.5% - 22.8%) | 4881/12106 (40.3%)<br>(40.1% - 40.6%) |

NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing HCG results as negative and positive, respectively.

**Table 3.6 Own embryo cryo cycles: Number of clinical pregnancies according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=14491, Missing=0)** | | | | | |
| Initiated cycles | 9165 | 3186 | 1626 | 514 | 14491 |
| Thawed cycles | 8079 | 2748 | 1394 | 399 | 12620 |
| Transfers | 7829 | 2630 | 1327 | 377 | 12163 |
| Clinical Pregnancy per initiated cycle | 2786/8976 (31.0%) (30.4% - 32.5%) | 813/3106 (26.2%) (25.5% - 28.0%) | 290/1597 (18.2%) (17.8% - 19.6%) | 63/506 (12.5%) (12.3% - 13.8%) | 3952/14185 (27.9%) (27.3% - 29.4%) |
| Clinical Pregnancy per thawing cycle | 2786/7890 (35.3%) (34.5% - 36.8%) | 813/2668 (30.5%) (29.6% - 32.5%) | 290/1365 (21.2%) (20.8% - 22.9%) | 63/391 (16.1%) (15.8% - 17.8%) | 3952/12314 (32.1%) (31.3% - 33.7%) |
| Clinical Pregnancy per embryo transfer | 2786/7640 (36.5%) (35.6% - 38.0%) | 813/2550 (31.9%) (30.9% - 34.0%) | 290/1298 (22.3%) (21.9% - 24.0%) | 63/369 (17.1%) (16.7% - 18.8%) | 3952/11857 (33.3%) (32.5% - 35.0%) |

NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 3.7 Own embryo cryo cycles: Number of clinical pregnancies including FHB according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=14491, Missing=0)** | | | | | |
| Initiated cycles | 9165 | 3186 | 1626 | 514 | 14491 |
| Thawed cycles | 8079 | 2748 | 1394 | 399 | 12620 |
| Transfers | 7829 | 2630 | 1327 | 377 | 12163 |
| FHB: 1/2/3/4 | 2606/13 | 744/6 | 260/2 | 60/0 | 3670/21 |
| Clinical Pregnancy + FHB per initiated cycle | 2619/9001 (29.1%) (28.6% - 30.4%) | 750/3117 (24.1%) (23.5% - 25.7%) | 262/1599 (16.4%) (16.1% - 17.8%) | 60/507 (11.8%) (11.7% - 13.0%) | 3691/14224 (25.9%) (25.5% - 27.3%) |
| Clinical Pregnancy + FHB per thawing cycle | 2619/7915 (33.1%) (32.4% - 34.4%) | 750/2679 (28.0%) (27.3% - 29.8%) | 262/1367 (19.2%) (18.8% - 20.7%) | 60/392 (15.3%) (15.0% - 16.8%) | 3691/12353 (29.9%) (29.2% - 31.4%) |
| Clinical Pregnancy + FHB per embryo transfer | 2619/7665 (34.2%) (33.5% - 35.5%) | 750/2561 (29.3%) (28.5% - 31.1%) | 262/1300 (20.2%) (19.7% - 21.8%) | 60/370 (16.2%) (15.9% - 17.8%) | 3691/11896 (31.0%) (30.3% - 32.5%) |

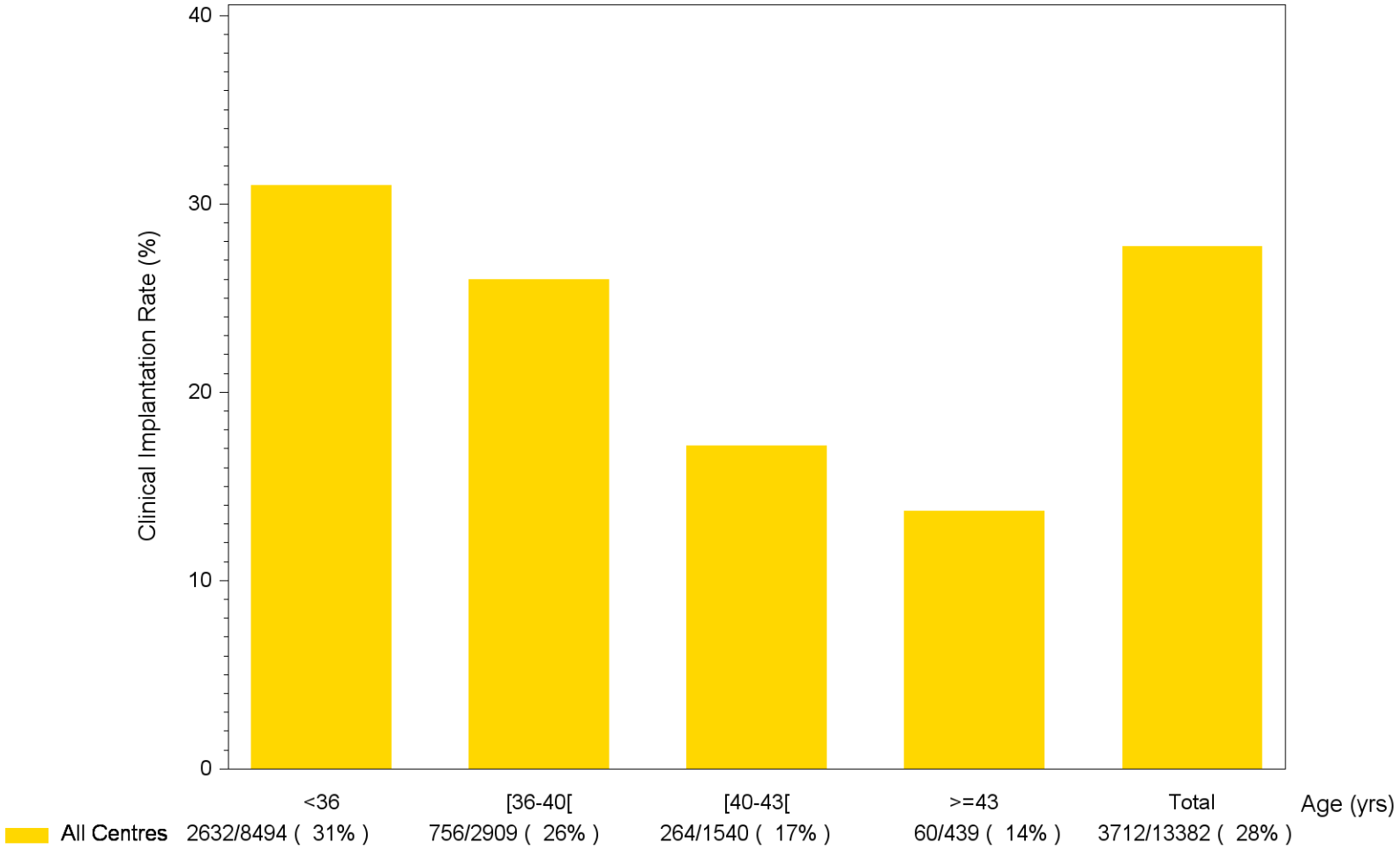
NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 3.8 Own embryo cryo cycles: Number of deliveries according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=14491, Missing=0)** | | | | | |
| Initiated cycles | 9165 | 3186 | 1626 | 514 | 14491 |
| Thawed cycles | 8079 | 2748 | 1394 | 399 | 12620 |
| Transfers | 7829 | 2630 | 1327 | 377 | 12163 |
| Number per delivery: 1/2/3 | 1951/75/1 | 556/17/0 | 150/10/0 | 28/0/0 | 2685/102/1 |
| Delivery rate per initiated cycle | 2027/8909 (22.8%) (22.1% - 24.9%) | 573/3101 (18.5%) (18.0% - 20.7%) | 160/1601 (10.0%) (9.8% - 11.4%) | 28/505 (5.5%) (5.4% - 7.2%) | 2788/14116 (19.8%) (19.2% - 21.8%) |
| Delivery rate per thawing cycle | 2027/7823 (25.9%) (25.1% - 28.3%) | 573/2663 (21.5%) (20.9% - 23.9%) | 160/1369 (11.7%) (11.5% - 13.3%) | 28/390 (7.2%) (7.0% - 9.3%) | 2788/12245 (22.8%) (22.1% - 25.1%) |
| Delivery rate per embryo transfer | 2027/7573 (26.8%) (25.9% - 29.2%) | 573/2545 (22.5%) (21.8% - 25.0%) | 160/1302 (12.3%) (12.1% - 13.9%) | 28/368 (7.6%) (7.4% - 9.8%) | 2788/11788 (23.7%) (22.9% - 26.0%) |

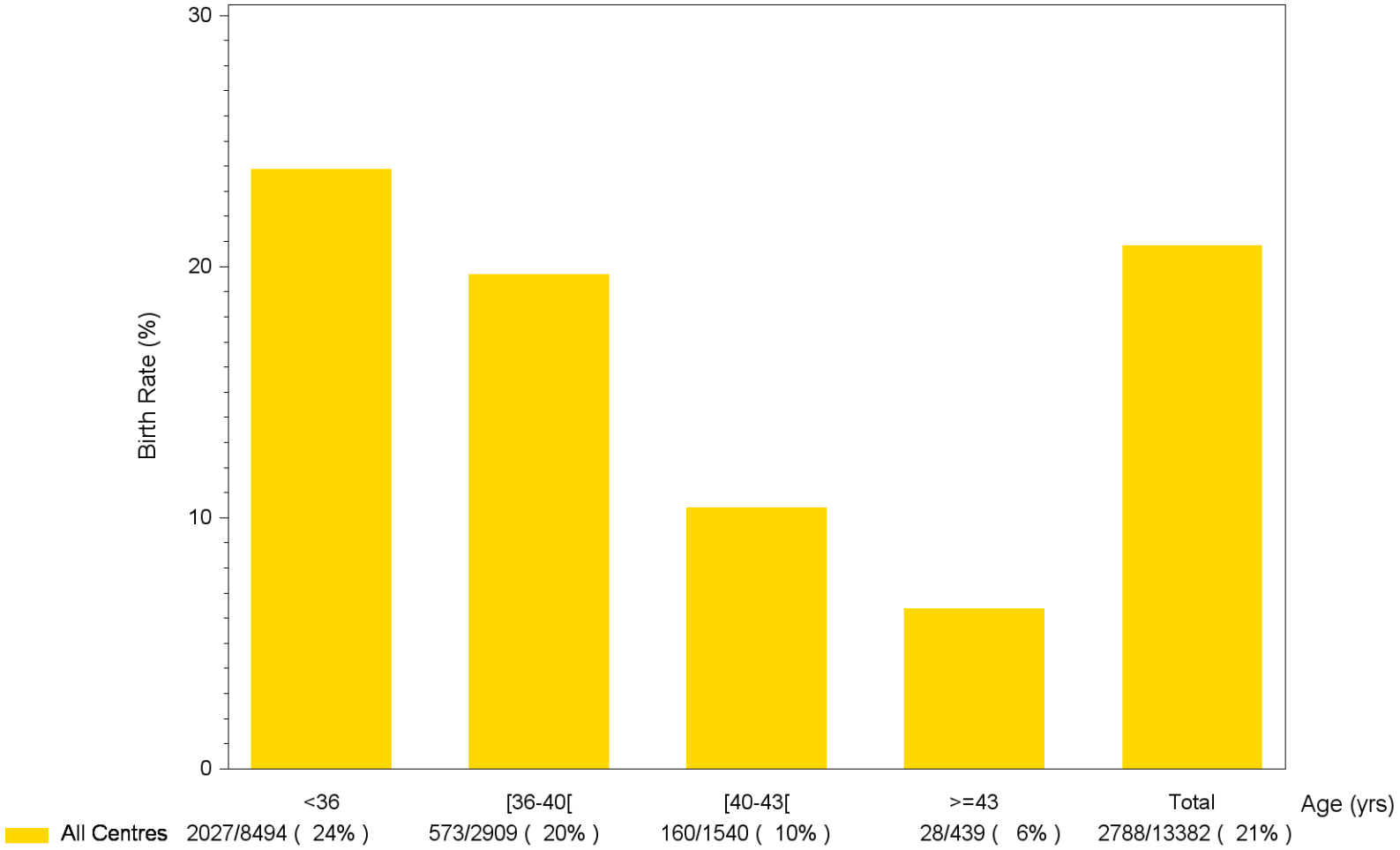
NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing delivery as negative and positive, respectively.

**Figure 3.9 Own embryo cryo cycles: Clinical implantation rate (No. of FHB) per transferred embryo according to age**



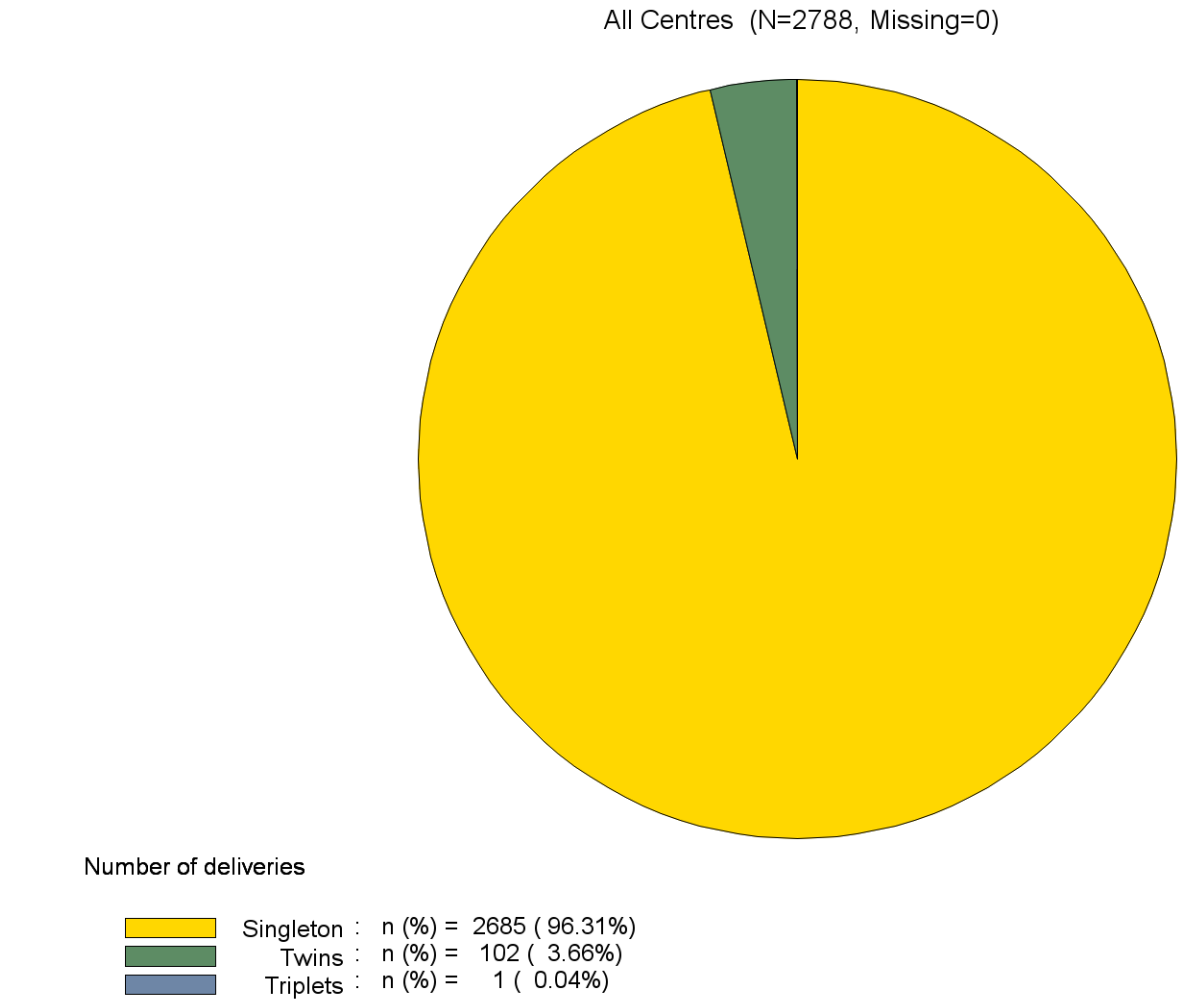

n/N (%) where n = Total number of FHB; N = Total number of embryos transferred; %= n*100/N; NA = No cycles with data available.

**Figure 3.10 Own embryo cryo cycles: Birth rate per transferred embryo according to age**




n/N (%) where n = Total number of births; N = Total number of embryos transferred; %= n*100/N; NA = No cycles with data available.

**Figure 3.11 Own embryo cryo cycles: Number of deliveries**

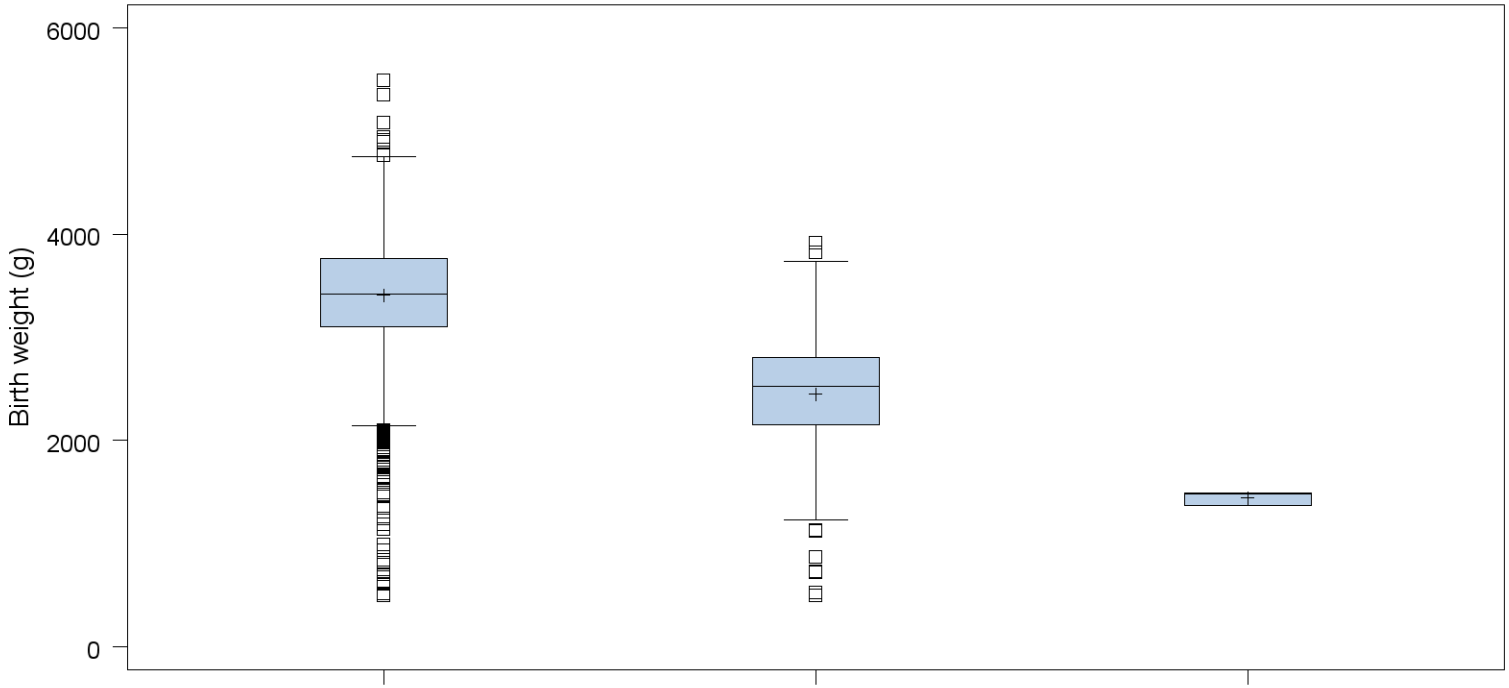



Deliveries of twins or triplets are only counted once.

**Table 3.12 Own embryo cryo cycles: Sex of babies**

| | All Centres (N=2892, Missing=0) |
|---|---|
| **Sex of baby** | |
| Male | 1411/2892 ( 48.79%) |
| Female | 1423/2892 ( 49.20%) |
| Unknown | 58/2892 ( 2.01%) |

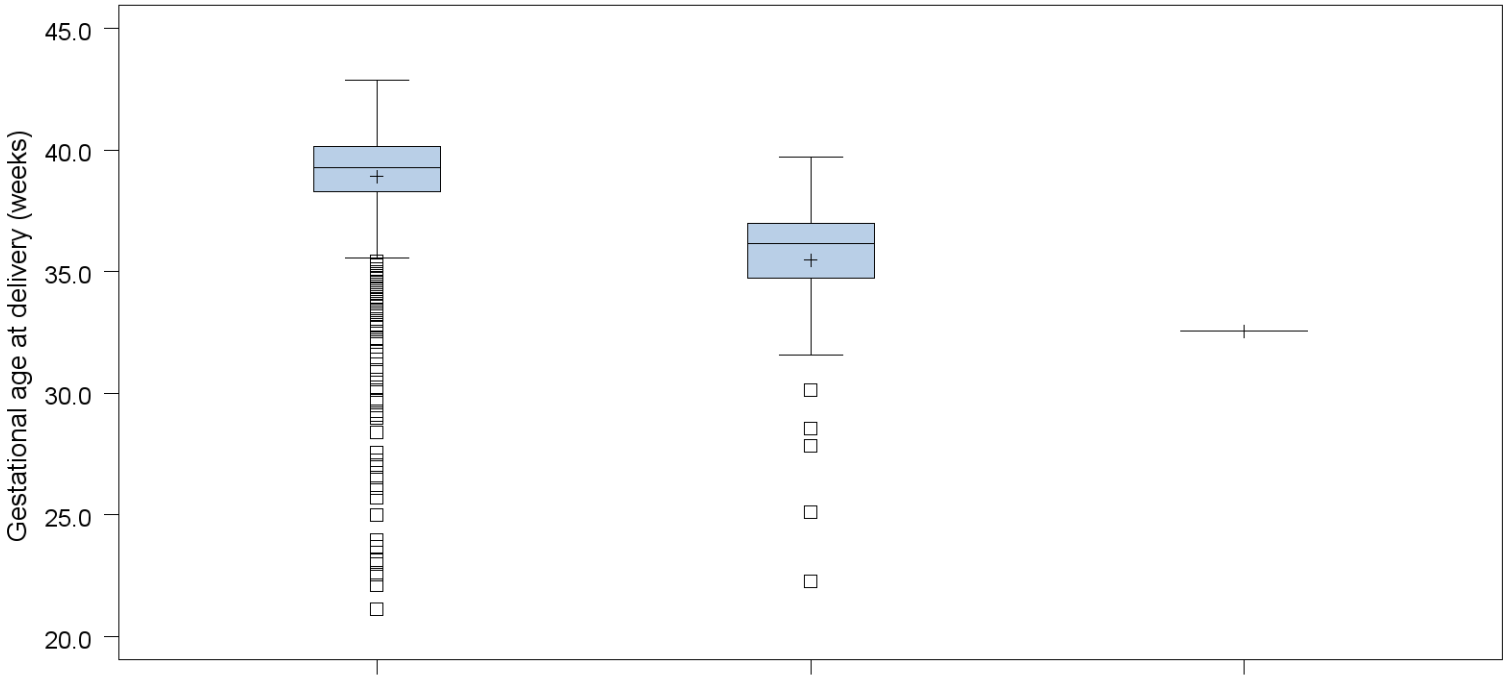
**Figure 3.13 Own embryo cryo cycles: Birth weight (boxplot)**




| | All Centres | | |
|---|---|---|---|
| N | 2586 | 195 | 3 |
| Missing | 99 | 9 | 0 |
| Mean | 3407.5 | 2450.1 | 1446.7 |
| SD | 550.29 | 587.84 | 66.58 |
| Median | 3420.0 | 2530.0 | 1480.0 |
| (Min,Max) | (500,5500) | (505,3920) | (1370,1490) |
| (Q1,Q3) | (3105,3765) | (2150,2805) | (1370,1490) |

Box plot shows median and interquartile range. Whiskers are drawn at (Q3+1.5*IQR, Q1-1.5*IQR).
Q1, Q3 = 1st and 3rd quartile, IQR = Q3 - Q1. +-sign indicates mean value.

**Figure 3.14 Own embryo cryo cycles: Gestational age at delivery (boxplot)**




| | All Centres | | |
|---|---|---|---|
| N | 2672 | 102 | 1 |
| Missing | 13 | 0 | 0 |
| Mean | 38.9 | 35.5 | 32.6 |
| SD | 1.99 | 2.59 | . |
| Median | 39.3 | 36.1 | 32.6 |
| (Min,Max) | (21,43) | (22,40) | (33,33) |
| (Q1,Q3) | (38,40) | (35,37) | (33,33) |

Box plot shows median and interquartile range. Whiskers are drawn at (Q3+1.5*IQR, Q1-1.5*IQR).
Q1, Q3 = 1st and 3rd quartile, IQR = Q3 - Q1. +-sign indicates mean value.
Twin or triplet birth is counted as one birth event.

**Table 3.15 Own embryo cryo cycles: Prevalence of preterm birth according to type of pregnancy**

| Gestational age at delivery (weeks) | Type of pregnancy: Single birth event | | Twin birth event | | Triplet birth event | | Total birth events | |
|---|---|---|---|---|---|---|---|---|
| **All Centres (N=2775, Missing=13)** | | | | | | | | |
| < 32 | 32 | (1.2%) | 6 | (5.9%) | 0 | | 38 | (1.4%) |
| [32-37[ | 213 | (8.0%) | 70 | (68.6%) | 1 | (100.0%) | 284 | (10.2%) |
| >=37 | 2427 | (90.8%) | 26 | (25.5%) | 0 | | 2453 | (88.4%) |
| Total | 2672 | (100.0%) | 102 | (100.0%) | 1 | (100.0%) | 2775 | (100.0%) |

Twin or triplet birth is counted as one birth event.

**Table 3.16 Own embryo cryo cycles: Prevalence of low birth weight according to type of pregnancy**

| | Type of pregnancy | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Birth weight (g)** | **Singletons** | | **Twins** | | **Triplets** | | **Total** | |
| **All Centres (N=2784, Missing=108)** | | | | | | | | |
| < 1500 | 18 | (0.7%) | 13 | (6.7%) | 3 | (100.0%) | 34 | (1.2%) |
| [1500-2500[ | 99 | (3.8%) | 77 | (39.5%) | 0 | | 176 | (6.3%) |
| >= 2500 | 2469 | (95.5%) | 105 | (53.8%) | 0 | | 2574 | (92.5%) |
| Total | 2586 | (100.0%) | 195 | (100.0%) | 3 | (100.0%) | 2784 | (100.0%) |

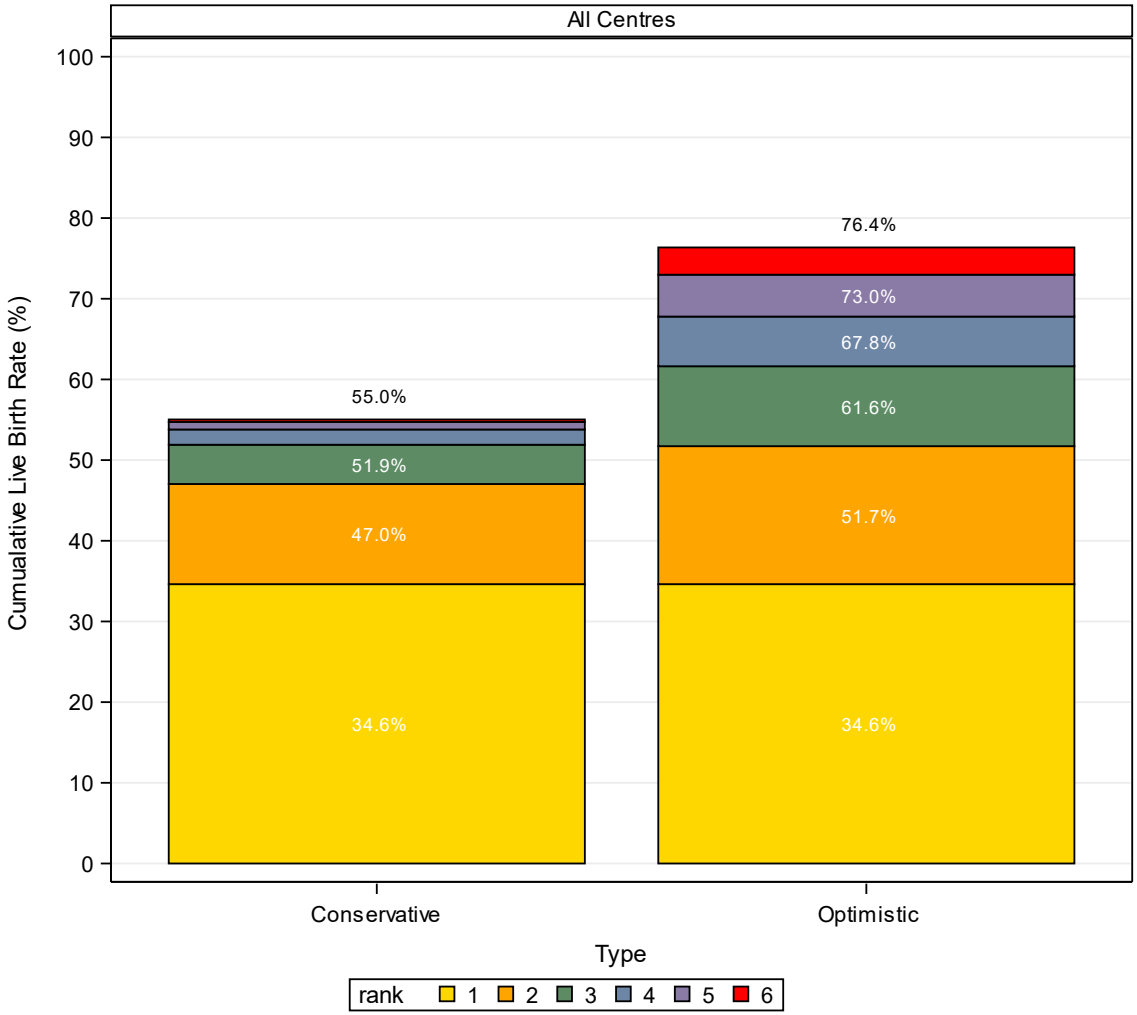
## Section 4: Own fresh and embryo cryo cycles

### Table 4.1 Own fresh and cryo cycles: Cumulative live birth rate

| Rank | Number of women | Number of live births | Conditional live birth rate (%) | Conservative cumulative live birth rate (%) | Standard Error conservative cumulative live birth rate (%) | Optimal cumulative live birth rate (%) | Standard Error optimal cumulative live birth rate (%) | Withdrawal (%) |
|---|---|---|---|---|---|---|---|---|
| **All Centres** | | | | | | | | |
| 1 | 16856 | 5836 | 34.6 | 34.6 | 0.37 | 34.6 | 0.37 | . |
| 2 | 8000 | 2093 | 26.2 | 47.0 | 0.38 | 51.7 | 0.42 | 27.4 |
| 3 | 3996 | 820 | 20.5 | 51.9 | 0.38 | 61.6 | 0.45 | 32.4 |
| 4 | 1988 | 319 | 16.0 | 53.8 | 0.38 | 67.8 | 0.50 | 37.4 |
| 5 | 974 | 157 | 16.1 | 54.7 | 0.38 | 73.0 | 0.56 | 41.6 |
| 6 | 416 | 52 | 12.5 | 55.0 | 0.38 | 76.4 | 0.66 | 49.1 |

Results from rank 1 patients in 2017 to 2019 and follow-up to end of 2020.
Patients who received IVM and PGD cycles are excluded.
A specific rank includes the fresh cycle and all related cryo embryo cycles.
See appendix for applied methodology.

## Table 4.2 Own fresh and cryo cycles: Plot of cumulative live birth rate



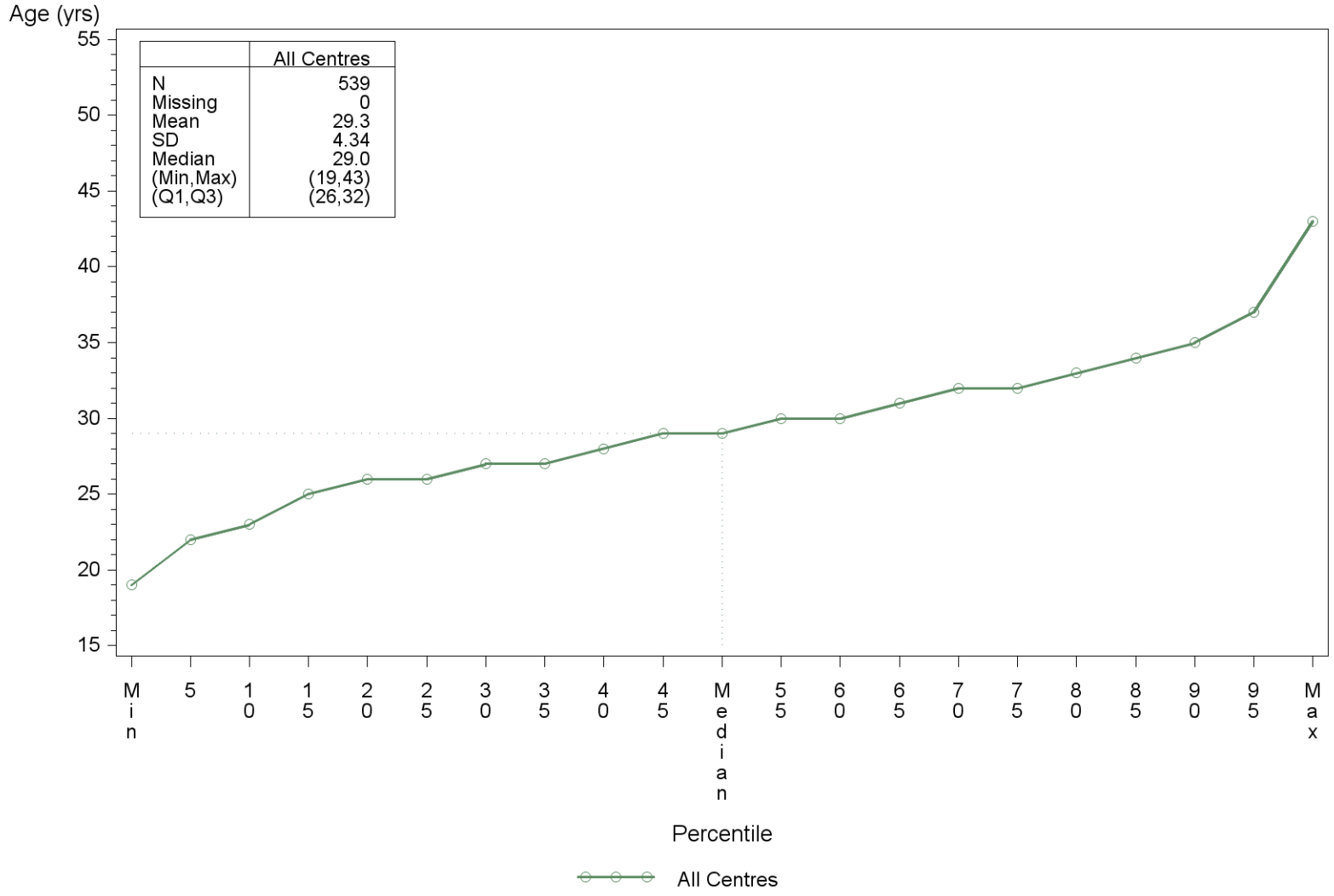

Results from rang 1 patients in 2017 to 2019 and follow-up to end of 2020.
Patients who received IVM and PGD cycles are excluded.
A specific rank includes the fresh cycle and all related cryo embryo cycles.
See appendix for applied methodology.

## Section 5: Fresh donor cycles

### Table 5.1 Fresh donor cycles: Overview of cycles

| Cycle | All Centres | |
|---|---|---|
| Initiated | 539 | (100.0%) |
| Cancelled | 20 | (3.7%) |
| At least one oocyte received | 519 | (96.3%) |

**Figure 5.2 Fresh donor cycles: Female age distribution**



## Table 5.3 Fresh donor cycles: Pituitary inhibition

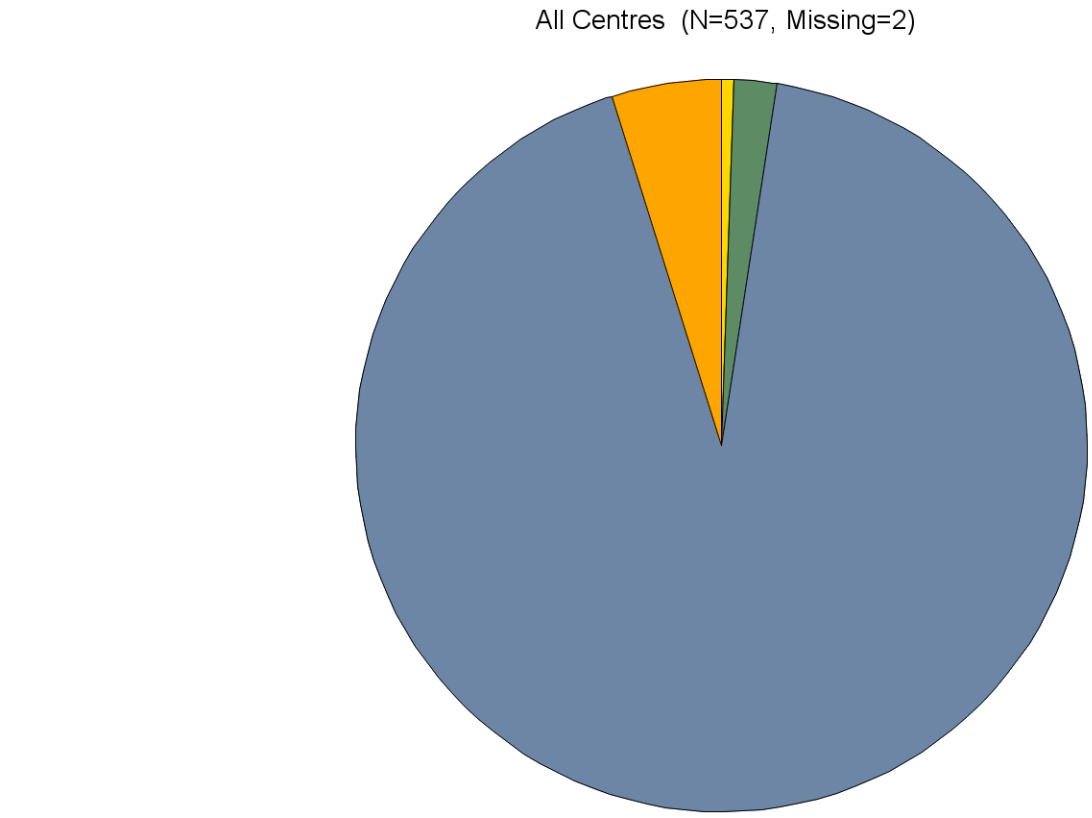
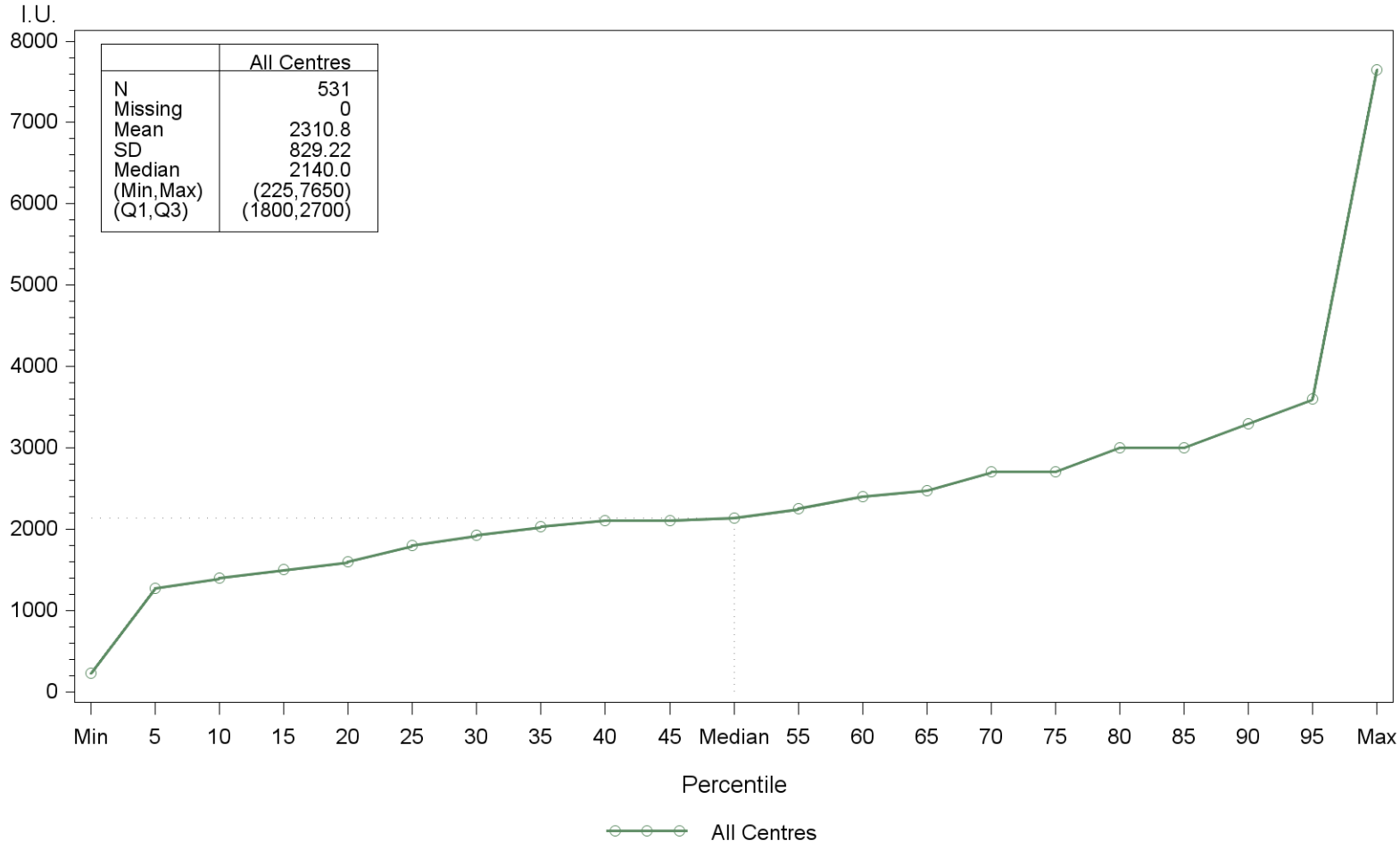


**Table 5.4 Fresh donor cycles: Stimulation protocol**

| | Statistic | All Centres (N=539) |
|---|---|---|
| Stimulation with clomiphene | n/N (%) | 2/528 ( 0.38%) |
| Stimulation with gonadotrophins | n/N (%) | 531/538 ( 98.70%) |
| Substitution cycle | n/N (%) | 0/514 ( 0.00%) |
| Spontaneous/modified cycle | n/N (%) | 2/514 ( 0.39%) |
| Other stimulation | n/N (%) | 3/538 ( 0.56%) |

Patients can receive different medications.

**Figure 5.5 Fresh donor cycles: Total dose of gonadotrophins administered (percentiles)**



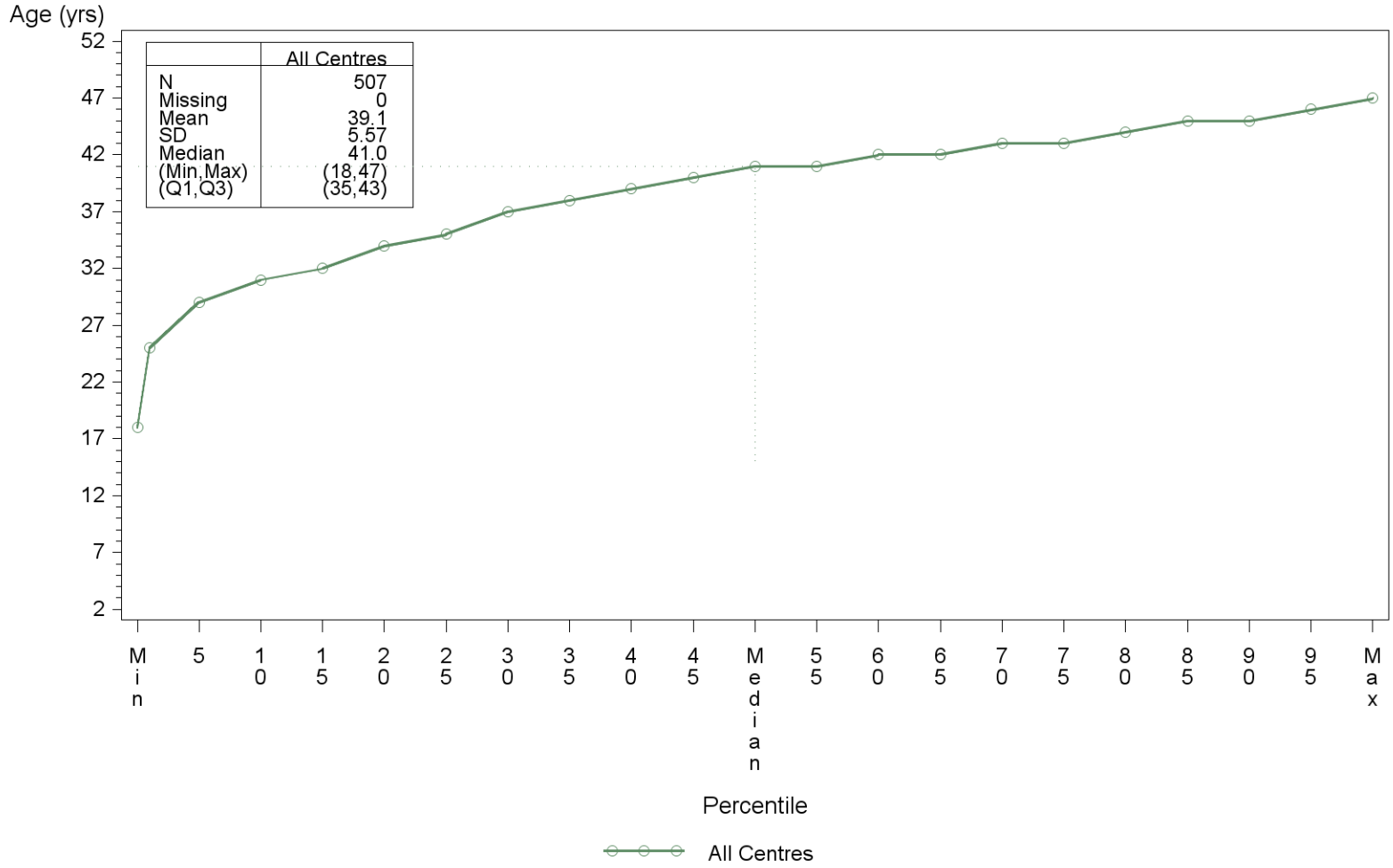

Long acting FSH is counted as a gonadotrophins dose of 1540 I.U.
For Rekovelle, dose in mcg was mulitplied with 25 to get the dose in I.U.

## Section 6: Fresh oocytes recipient cycles

### Table 6.1 Fresh oocytes recipient cycles: Overview of cycles

| Cycle | All Centres | |
|---|---|---|
| Initiated | 507 | (100.0%) |
| Cancelled | 35 | (6.9%) |
| At least one oocyte received | 472 | (93.1%) |
| Embryo Transfer | 234 | (46.2%) |

**Figure 6.2 Fresh oocytes recipient cycles: Female age distribution**




2 year old patient was an oncology patient.

**Figure 6.3 Fresh oocytes recipient cycles: Pituitary inhibition**

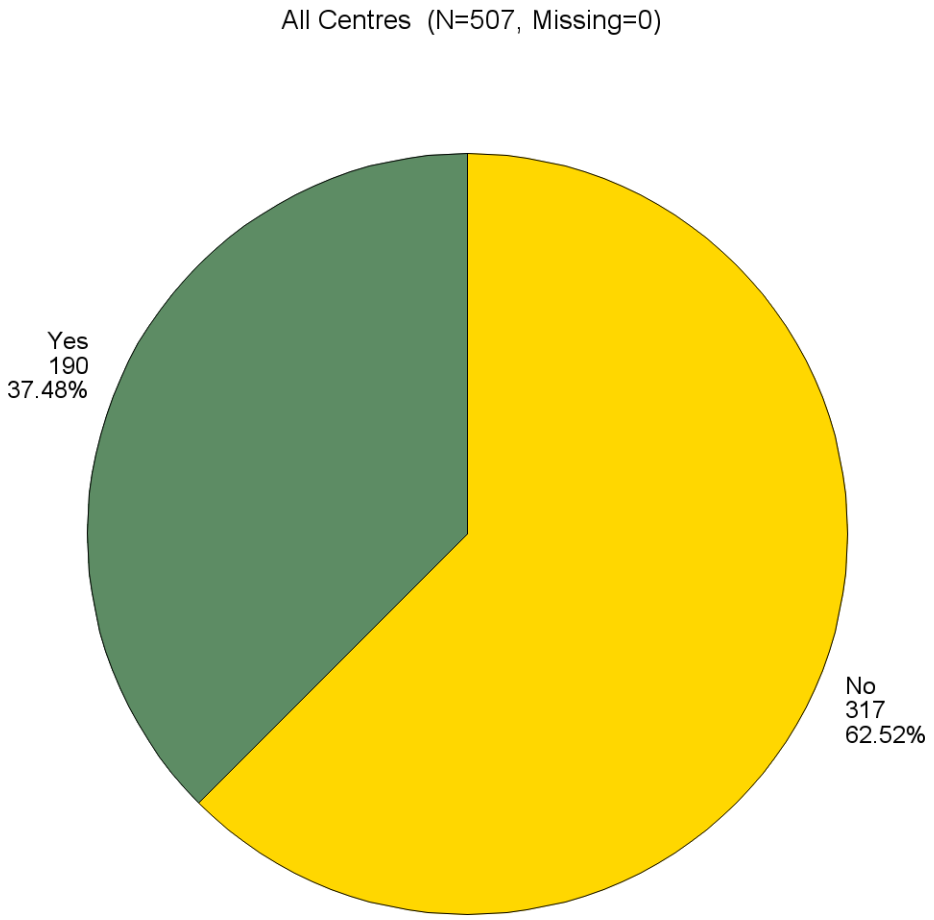


**Table 6.4 Fresh oocytes recipient cycles: Stimulation protocol**

| | Statistic | All Centres (N=507) |
|---|---|---|
| Stimulation with clomiphene | n/N (%) | 0/486 ( 0.00%) |
| Stimulation with gonadotrophins | n/N (%) | 5/486 ( 1.03%) |
| Substitution cycle | n/N (%) | 211/477 ( 44.23%) |
| Spontaneous/modified cycle | n/N (%) | 68/477 ( 14.26%) |
| Other stimulation | n/N (%) | 1/486 ( 0.21%) |

Patients can receive different medications.

**Table 6.5 Fresh oocytes recipient cycles: Number of embryos transferred**

| | All Centres |
|---|---|
| **Number of cycles with transfer** | 234 |
| **Number of embryos transferred** | |
| 1 | 161/234 ( 68.80%) |
| 2 | 69/234 ( 29.49%) |
| 3 | 4/234 ( 1.71%) |
| **Total number of embryos transferred** | 311 |

Based on all cycles with at least one embryo transferred.

**Table 6.6 Fresh oocytes recipient cycles: Number of HCG+ pregnancies according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=507, Missing=0)** | | | | | |
| Initiated cycles | 133 | 86 | 121 | 167 | 507 |
| At least one oocyte received | 120 | 79 | 111 | 162 | 472 |
| Transfers | 67 | 34 | 48 | 85 | 234 |
| HCG +<br>per initiated cycle | 27/133 (20.3%)<br>(20.3% - 20.3%) | 15/86 (17.4%)<br>(17.4% - 17.4%) | 18/121 (14.9%)<br>(14.9% - 14.9%) | 34/167 (20.4%)<br>(20.4% - 20.4%) | 94/507 (18.5%)<br>(18.5% - 18.5%) |
| HCG +<br>per cycles with at least one oocyte received | 27/120 (22.5%)<br>(22.5% - 22.5%) | 15/79 (19.0%)<br>(19.0% - 19.0%) | 18/111 (16.2%)<br>(16.2% - 16.2%) | 34/162 (21.0%)<br>(21.0% - 21.0%) | 94/472 (19.9%)<br>(19.9% - 19.9%) |
| HCG +<br>per embryo transfer | 27/67 (40.3%)<br>(40.3% - 40.3%) | 15/34 (44.1%)<br>(44.1% - 44.1%) | 18/48 (37.5%)<br>(37.5% - 37.5%) | 34/85 (40.0%)<br>(40.0% - 40.0%) | 94/234 (40.2%)<br>(40.2% - 40.2%) |

NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing HCG results as negative and positive, respectively.

**Table 6.7 Fresh oocytes recipient cycles: Number of clinical pregnancies according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=507, Missing=0)** | | | | | |
| Initiated cycles | 133 | 86 | 121 | 167 | 507 |
| At least one oocyte received | 120 | 79 | 111 | 162 | 472 |
| Transfers | 67 | 34 | 48 | 85 | 234 |
| Clinical Pregnancy per initiated cycle | 20/129 (15.5%) (15.0% - 18.0%) | 11/82 (13.4%) (12.8% - 17.4%) | 14/119 (11.8%) (11.6% - 13.2%) | 19/157 (12.1%) (11.4% - 17.4%) | 64/487 (13.1%) (12.6% - 16.6%) |
| Clinical Pregnancy per cycles with at least one oocyte received | 20/116 (17.2%) (16.7% - 20.0%) | 11/75 (14.7%) (13.9% - 19.0%) | 14/109 (12.8%) (12.6% - 14.4%) | 19/152 (12.5%) (11.7% - 17.9%) | 64/452 (14.2%) (13.6% - 17.8%) |
| Clinical Pregnancy per embryo transfer | 20/63 (31.7%) (29.9% - 35.8%) | 11/30 (36.7%) (32.4% - 44.1%) | 14/46 (30.4%) (29.2% - 33.3%) | 19/75 (25.3%) (22.4% - 34.1%) | 64/214 (29.9%) (27.4% - 35.9%) |

NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 6.8 Fresh oocytes recipient cycles: Number of clinical pregnancies including FHB according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=507, Missing=0)** | | | | | |
| Initiated cycles | 133 | 86 | 121 | 167 | 507 |
| At least one oocyte received | 120 | 79 | 111 | 162 | 472 |
| Transfers | 67 | 34 | 48 | 85 | 234 |
| FHB: 1/2/3 | 20 | 10 | 14 | 19 | 63 |
| Clinical Pregnancy + FHB per initiated cycle | 20/129 (15.5%) (15.0% - 18.0%) | 10/82 (12.2%) (11.6% - 16.3%) | 14/119 (11.8%) (11.6% - 13.2%) | 19/157 (12.1%) (11.4% - 17.4%) | 63/487 (12.9%) (12.4% - 16.4%) |
| Clinical Pregnancy + FHB per cycles with at least one oocyte received | 20/116 (17.2%) (16.7% - 20.0%) | 10/75 (13.3%) (12.7% - 17.7%) | 14/109 (12.8%) (12.6% - 14.4%) | 19/152 (12.5%) (11.7% - 17.9%) | 63/452 (13.9%) (13.3% - 17.6%) |
| Clinical Pregnancy + FHB per embryo transfer | 20/63 (31.7%) (29.9% - 35.8%) | 10/30 (33.3%) (29.4% - 41.2%) | 14/46 (30.4%) (29.2% - 33.3%) | 19/75 (25.3%) (22.4% - 34.1%) | 63/214 (29.4%) (26.9% - 35.5%) |

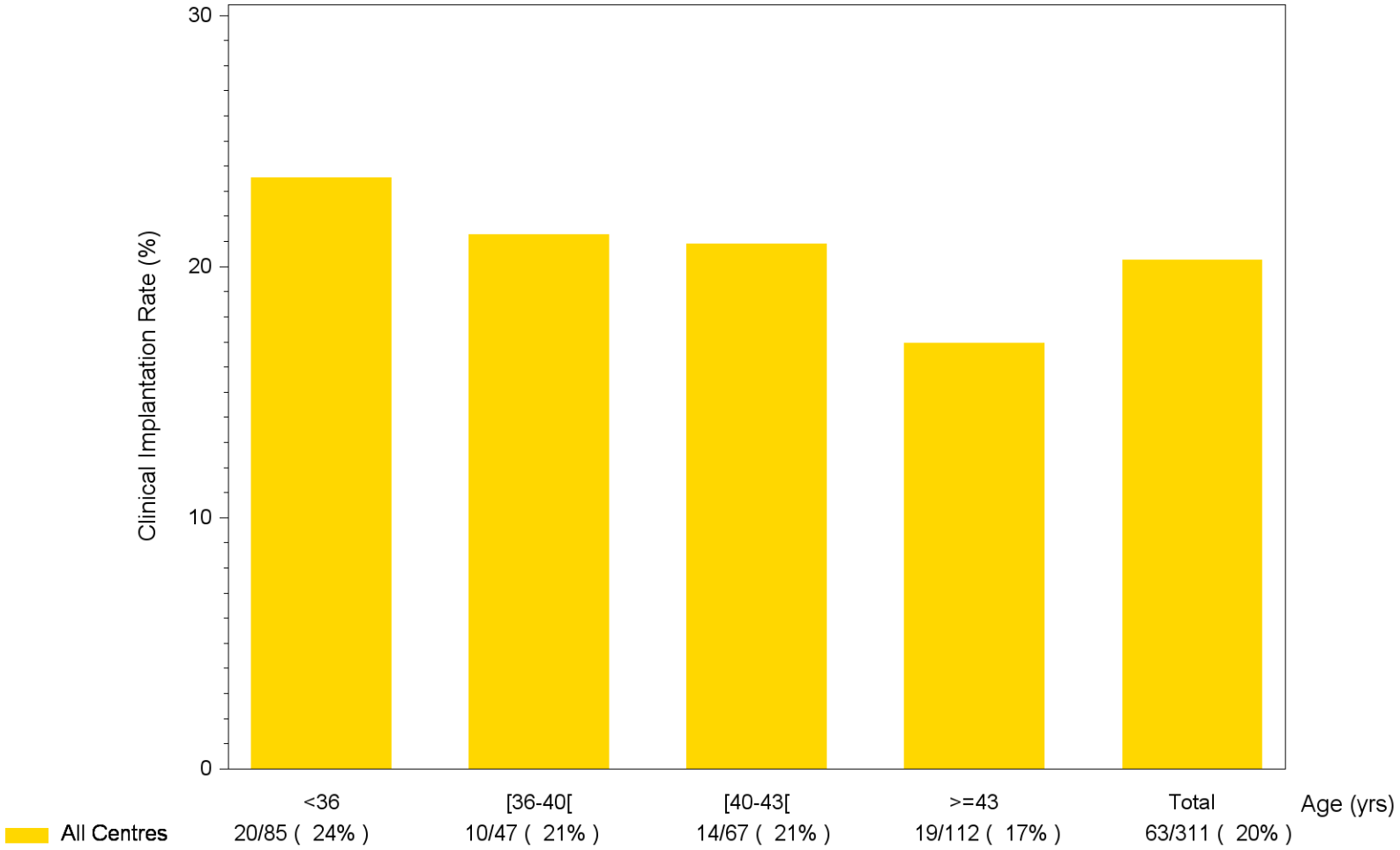
NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 6.9 Fresh oocytes recipient cycles: Number of deliveries according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=507, Missing=0)** | | | | | |
| Initiated cycles | 133 | 86 | 121 | 167 | 507 |
| At least one oocyte received | 120 | 79 | 111 | 162 | 472 |
| Transfers | 67 | 34 | 48 | 85 | 234 |
| Number per delivery: 1/2/3 | 14/1/0 | 7/1/0 | 10/2/0 | 13/3/0 | 44/7/0 |
| Delivery rate<br>per initiated cycle | 15/128 (11.7%)<br>(11.3% - 15.0%) | 8/82 (9.8%)<br>(9.3% - 14.0%) | 12/119 (10.1%)<br>(9.9% - 11.6%) | 16/157 (10.2%)<br>(9.6% - 15.6%) | 51/486 (10.5%)<br>(10.1% - 14.2%) |
| Delivery rate<br>per cycles with at least one oocyte received | 15/115 (13.0%)<br>(12.5% - 16.7%) | 8/75 (10.7%)<br>(10.1% - 15.2%) | 12/109 (11.0%)<br>(10.8% - 12.6%) | 16/152 (10.5%)<br>(9.9% - 16.0%) | 51/451 (11.3%)<br>(10.8% - 15.3%) |
| Delivery rate<br>per embryo transfer | 15/62 (24.2%)<br>(22.4% - 29.9%) | 8/30 (26.7%)<br>(23.5% - 35.3%) | 12/46 (26.1%)<br>(25.0% - 29.2%) | 16/75 (21.3%)<br>(18.8% - 30.6%) | 51/213 (23.9%)<br>(21.8% - 30.8%) |

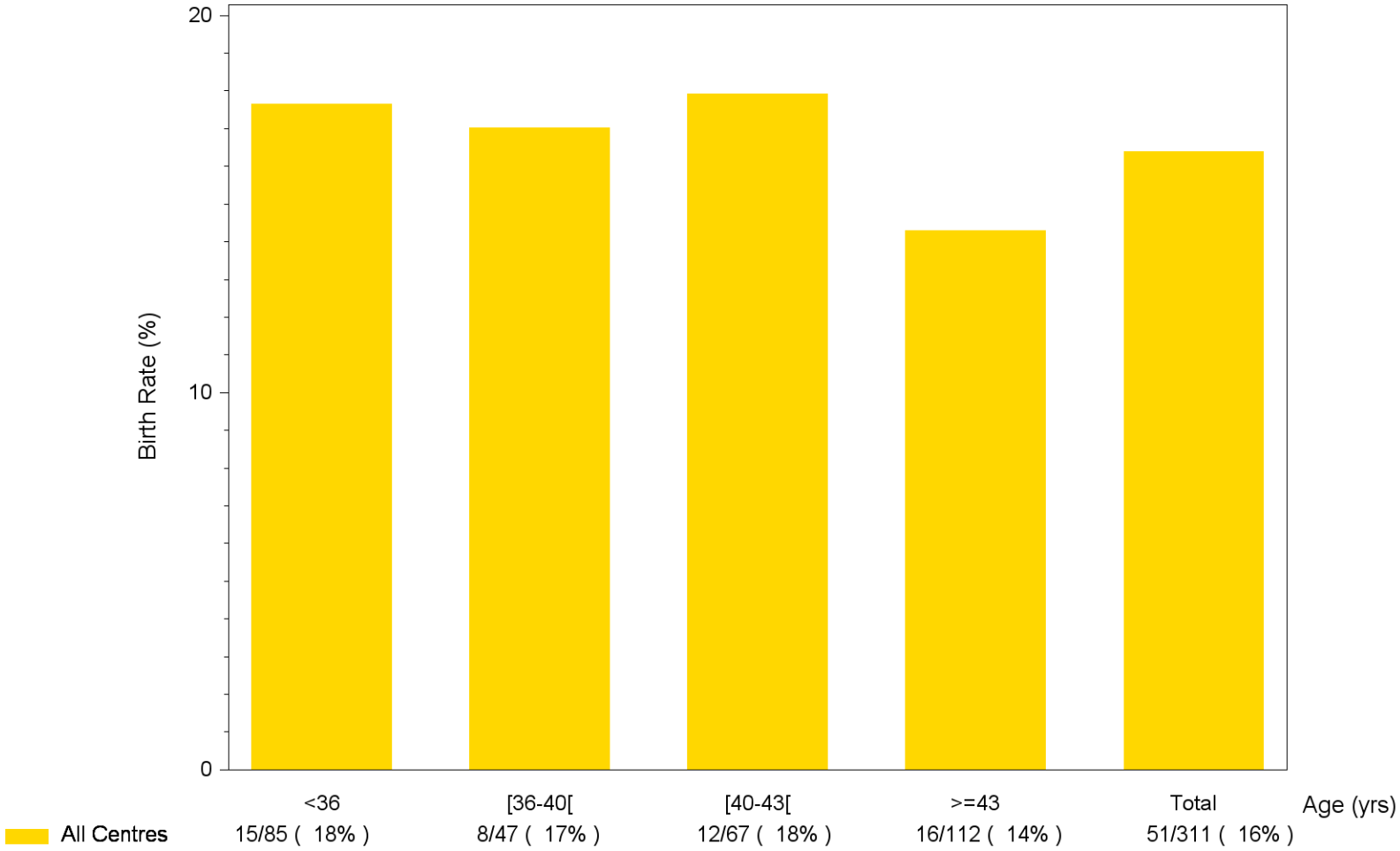
NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing delivery as negative and positive, respectively.

**Figure 6.10 Fresh oocytes recipient cycles: Clinical implantation rate (No. of FHB) per transferred embryo according to age**



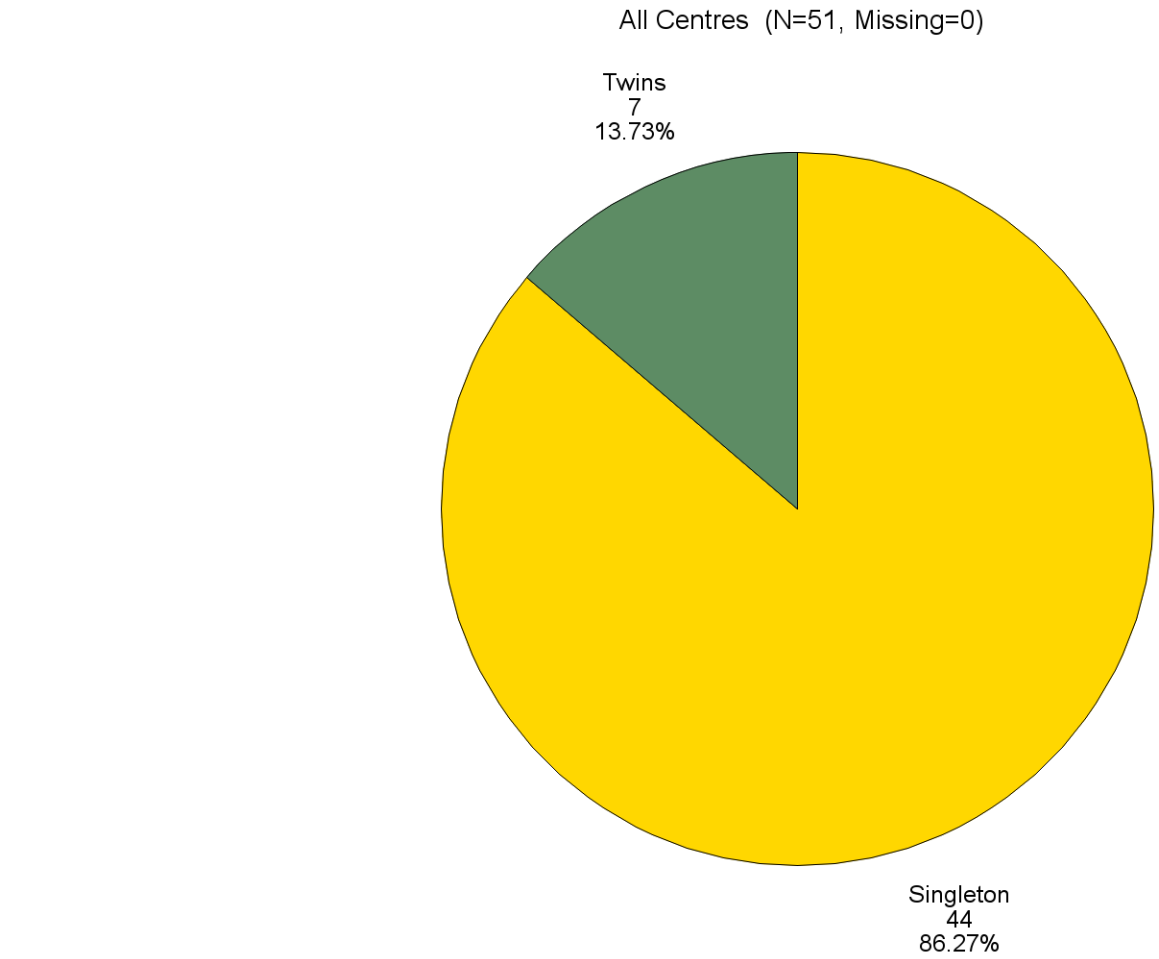

n/N (%) where n = Total number of FHB; N = Total number of embryos transferred; %= n*100/N; NA = No cycles with data available.

**Figure 6.11 Fresh oocytes recipient cycles: Birth rate per transferred embryo according to age**




n/N (%) where n = Total number of births; N = Total number of embryos transferred; %= n*100/N; NA = No cycles with data available.

**Figure 6.12 Fresh oocytes recipient cycles: Number of deliveries**

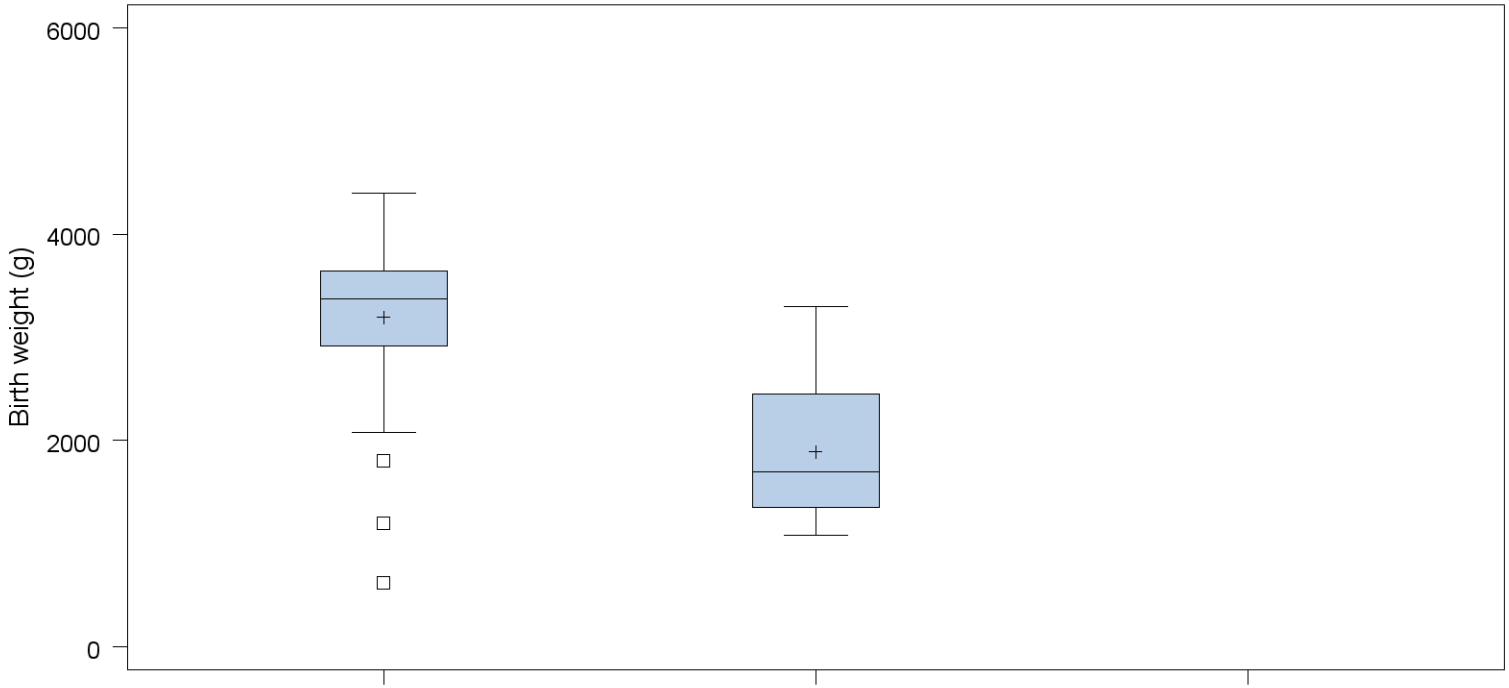



Deliveries of twins or triplets are only counted once.

**Table 6.13 Fresh oocytes recipient cycles: Sex of babies**

| | All Centres (N=58, Missing=0) |
|---|---|
| **Sex of baby** | |
| Male | 33/58 ( 56.90%) |
| Female | 21/58 ( 36.21%) |
| Unknown | 4/58 ( 6.90%) |

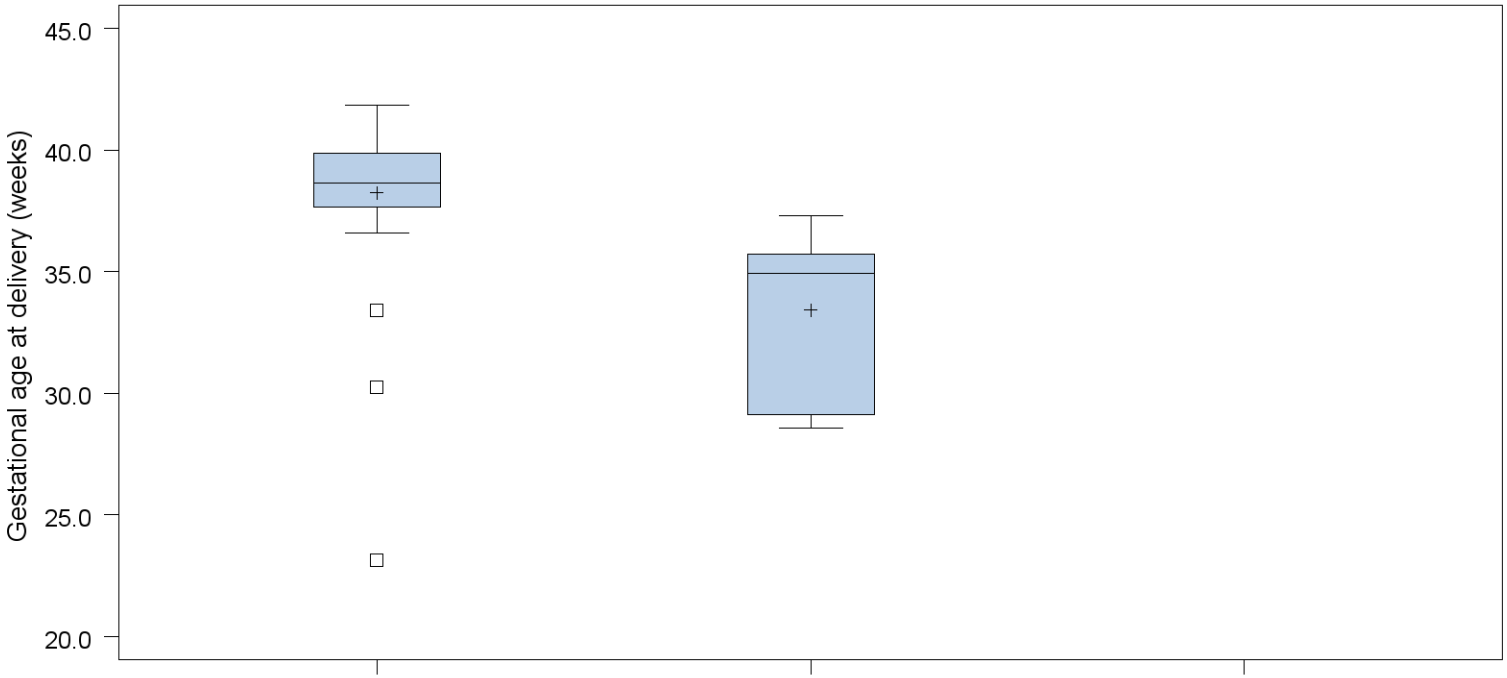
**Figure 6.14 Fresh oocytes recipient cycles: Birth weight (boxplot)**




| | All Centres | |
|---|---|---|
| N | 38 | 14 |
| Missing | 6 | 0 |
| Mean | 3194.7 | 1895.1 |
| SD | 781.09 | 703.33 |
| Median | 3375.0 | 1700.0 |
| (Min,Max) | (625,4400) | (1077,3300) |
| (Q1,Q3) | (2920,3640) | (1350,2450) |

Box plot shows median and interquartile range. Whiskers are drawn at (Q3+1.5*IQR, Q1-1.5*IQR).
Q1, Q3 = 1st and 3rd quartile, IQR = Q3 - Q1. +-sign indicates mean value.

**Figure 6.15 Fresh oocytes recipient cycles: Gestational age at delivery (boxplot)**




| | All Centres | |
|---|---|---|
| N | 44 | 6 |
| Missing | 0 | 1 |
| Mean | 38,2 | 33,4 |
| SD | 3,06 | 3,67 |
| Median | 38,6 | 34,9 |
| (Min,Max) | (23,42) | (29,37) |
| (Q1,Q3) | (38,40) | (29,36) |

Box plot shows median and interquartile range. Whiskers are drawn at (Q3+1.5*IQR, Q1-1.5*IQR).
Q1, Q3 = 1st and 3rd quartile, IQR = Q3 - Q1. +-sign indicates mean value.
Twin or triplet birth is counted as one birth event.

**Table 6.16 Fresh oocytes recipient cycles: Prevalence of preterm birth according to type of pregnancy**

| Gestational age at delivery (weeks) | Type of pregnancy: Single birth event | Twin birth event | Triplet birth event | Total birth events |
|---|---|---|---|---|
| **All Centres (N=50, Missing=1)** | | | | |
| < 32 | 2 (4.5%) | 2 (33.3%) | 0 | 4 (8.0%) |
| [32-37[ | 3 (6.8%) | 3 (50.0%) | 0 | 6 (12.0%) |
| >=37 | 39 (88.6%) | 1 (16.7%) | 0 | 40 (80.0%) |
| Total | 44 (100.0%) | 6 (100.0%) | 0 | 50 (100.0%) |

Twin or triplet birth is counted as one birth event.

**Table 6.17 Fresh oocytes recipient cycles: Prevalence of low birth weight according to type of pregnancy**

| | Type of pregnancy | | | |
|---|---|---|---|---|
| **Birth weight (g)** | **Singletons** | **Twins** | **Triplets** | **Total** |
| **All Centres (N=52, Missing=6)** | | | | |
| < 1500 | 2 (5.3%) | 6 (42.9%) | 0 | 8 (15.4%) |
| [1500-2500[ | 4 (10.5%) | 5 (35.7%) | 0 | 9 (17.3%) |
| >= 2500 | 32 (84.2%) | 3 (21.4%) | 0 | 35 (67.3%) |
| Total | 38 (100.0%) | 14 (100.0%) | 0 | 52 (100.0%) |

## Section 7: Thawed oocytes recipient cycles

### Table 7.1 Thawed oocytes recipient cycles: Overview of cycles

| Cycle | All Centres | |
|---|---|---|
| Initiated | 277 | (100.0%) |
| Cancelled | 50 | (18.1%) |
| At least one oocyte received | 227 | (81.9%) |
| Embryo Transfer | 206 | (74.4%) |

**Figure 7.2 Thawed oocytes recipient cycles: Female age distribution**

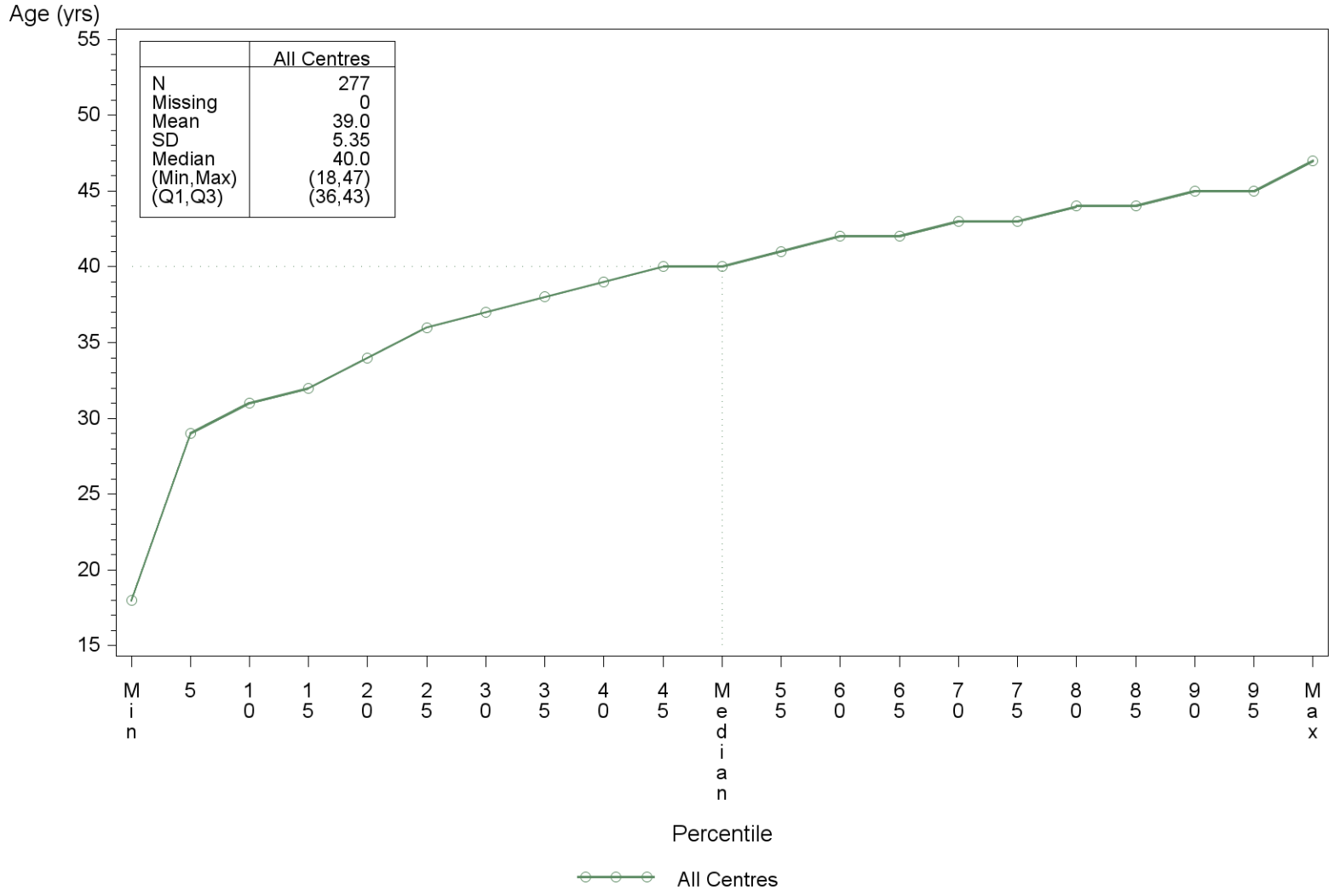


**Figure 7.3 Thawed oocytes recipient cycles: Pituitary inhibition**

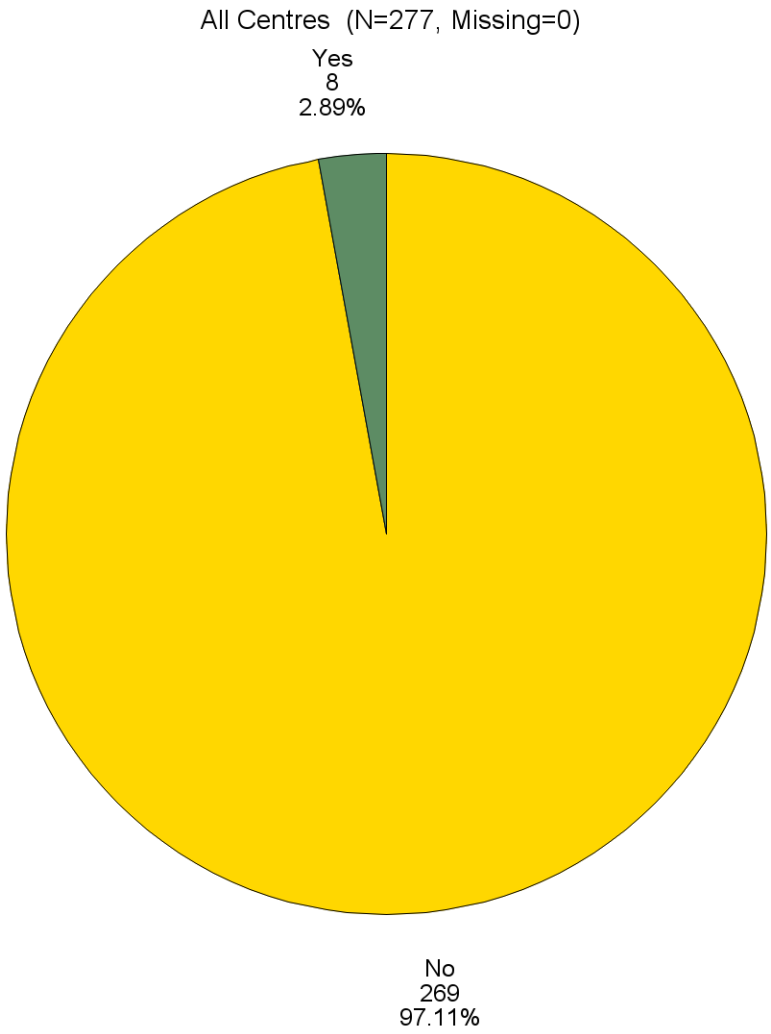


**Table 7.4 Thawed oocytes recipient cycles: Stimulation protocol**

| | Statistic | All Centres (N=277) |
|---|---|---|
| Stimulation with clomiphene | n/N (%) | 0/276 ( 0.00%) |
| Stimulation with gonadotrophins | n/N (%) | 3/275 ( 1.09%) |
| Substitution cycle | n/N (%) | 139/275 ( 50.55%) |
| Spontaneous/modified cycle | n/N (%) | 8/275 ( 2.91%) |
| Other stimulation | n/N (%) | 2/275 ( 0.73%) |

Patients can receive different medications.

**Table 7.5 Thawed oocytes recipient cycles: Number of embryos transferred**

| | All Centres |
|---|---|
| **Number of cycles with transfer** | 206 |
| **Number of embryos transferred** | |
| 1 | 190/206 ( 92.23%) |
| 2 | 15/206 ( 7.28%) |
| 3 | 1/206 ( 0.49%) |
| **Total number of embryos transferred** | 223 |

Based on all cycles with at least one embryo transferred.

**Table 7.6 Thawed oocytes recipient cycles: Number of HCG+ pregnancies according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=277, Missing=0)** | | | | | |
| Initiated cycles | 67 | 51 | 72 | 87 | 277 |
| At least one oocyte received | 55 | 40 | 64 | 68 | 227 |
| Transfers | 47 | 39 | 57 | 63 | 206 |
| HCG +<br>per initiated cycle | 25/63 (39.7%)<br>(37.3% - 43.3%) | 17/51 (33.3%)<br>(33.3% - 33.3%) | 23/71 (32.4%)<br>(31.9% - 33.3%) | 27/87 (31.0%)<br>(31.0% - 31.0%) | 92/272 (33.8%)<br>(33.2% - 35.0%) |
| HCG +<br>per cycles with at least one oocyte received | 25/51 (49.0%)<br>(45.5% - 52.7%) | 17/40 (42.5%)<br>(42.5% - 42.5%) | 23/63 (36.5%)<br>(35.9% - 37.5%) | 27/68 (39.7%)<br>(39.7% - 39.7%) | 92/222 (41.4%)<br>(40.5% - 42.7%) |
| HCG +<br>per embryo transfer | 25/47 (53.2%)<br>(53.2% - 53.2%) | 17/39 (43.6%)<br>(43.6% - 43.6%) | 23/57 (40.4%)<br>(40.4% - 40.4%) | 27/63 (42.9%)<br>(42.9% - 42.9%) | 92/206 (44.7%)<br>(44.7% - 44.7%) |

NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing HCG results as negative and positive, respectively.

**Table 7.7 Thawed oocytes recipient cycles: Number of clinical pregnancies according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=277, Missing=0)** | | | | | |
| Initiated cycles | 67 | 51 | 72 | 87 | 277 |
| At least one oocyte received | 55 | 40 | 64 | 68 | 227 |
| Transfers | 47 | 39 | 57 | 63 | 206 |
| Clinical Pregnancy per initiated cycle | 17/64 (26.6%) (25.4% - 29.9%) | 13/48 (27.1%) (25.5% - 31.4%) | 19/72 (26.4%) (26.4% - 26.4%) | 22/85 (25.9%) (25.3% - 27.6%) | 71/269 (26.4%) (25.6% - 28.5%) |
| Clinical Pregnancy per cycles with at least one oocyte received | 17/52 (32.7%) (30.9% - 36.4%) | 13/37 (35.1%) (32.5% - 40.0%) | 19/64 (29.7%) (29.7% - 29.7%) | 22/66 (33.3%) (32.4% - 35.3%) | 71/219 (32.4%) (31.3% - 34.8%) |
| Clinical Pregnancy per embryo transfer | 17/44 (38.6%) (36.2% - 42.6%) | 13/36 (36.1%) (33.3% - 41.0%) | 19/57 (33.3%) (33.3% - 33.3%) | 22/61 (36.1%) (34.9% - 38.1%) | 71/198 (35.9%) (34.5% - 38.3%) |

NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 7.8 Thawed oocytes recipient cycles: Number of clinical pregnancies including FHB according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=277, Missing=0)** | | | | | |
| Initiated cycles | 67 | 51 | 72 | 87 | 277 |
| At least one oocyte received | 55 | 40 | 64 | 68 | 227 |
| Transfers | 47 | 39 | 57 | 63 | 206 |
| FHB: 1/2/3 | 17 | 13 | 19 | 22 | 71 |
| Clinical Pregnancy + FHB per initiated cycle | 17/64 (26.6%)<br>(25.4% - 29.9%) | 13/48 (27.1%)<br>(25.5% - 31.4%) | 19/72 (26.4%)<br>(26.4% - 26.4%) | 22/85 (25.9%)<br>(25.3% - 27.6%) | 71/269 (26.4%)<br>(25.6% - 28.5%) |
| Clinical Pregnancy + FHB per cycles with at least one oocyte received | 17/52 (32.7%)<br>(30.9% - 36.4%) | 13/37 (35.1%)<br>(32.5% - 40.0%) | 19/64 (29.7%)<br>(29.7% - 29.7%) | 22/66 (33.3%)<br>(32.4% - 35.3%) | 71/219 (32.4%)<br>(31.3% - 34.8%) |
| Clinical Pregnancy + FHB per embryo transfer | 17/44 (38.6%)<br>(36.2% - 42.6%) | 13/36 (36.1%)<br>(33.3% - 41.0%) | 19/57 (33.3%)<br>(33.3% - 33.3%) | 22/61 (36.1%)<br>(34.9% - 38.1%) | 71/198 (35.9%)<br>(34.5% - 38.3%) |

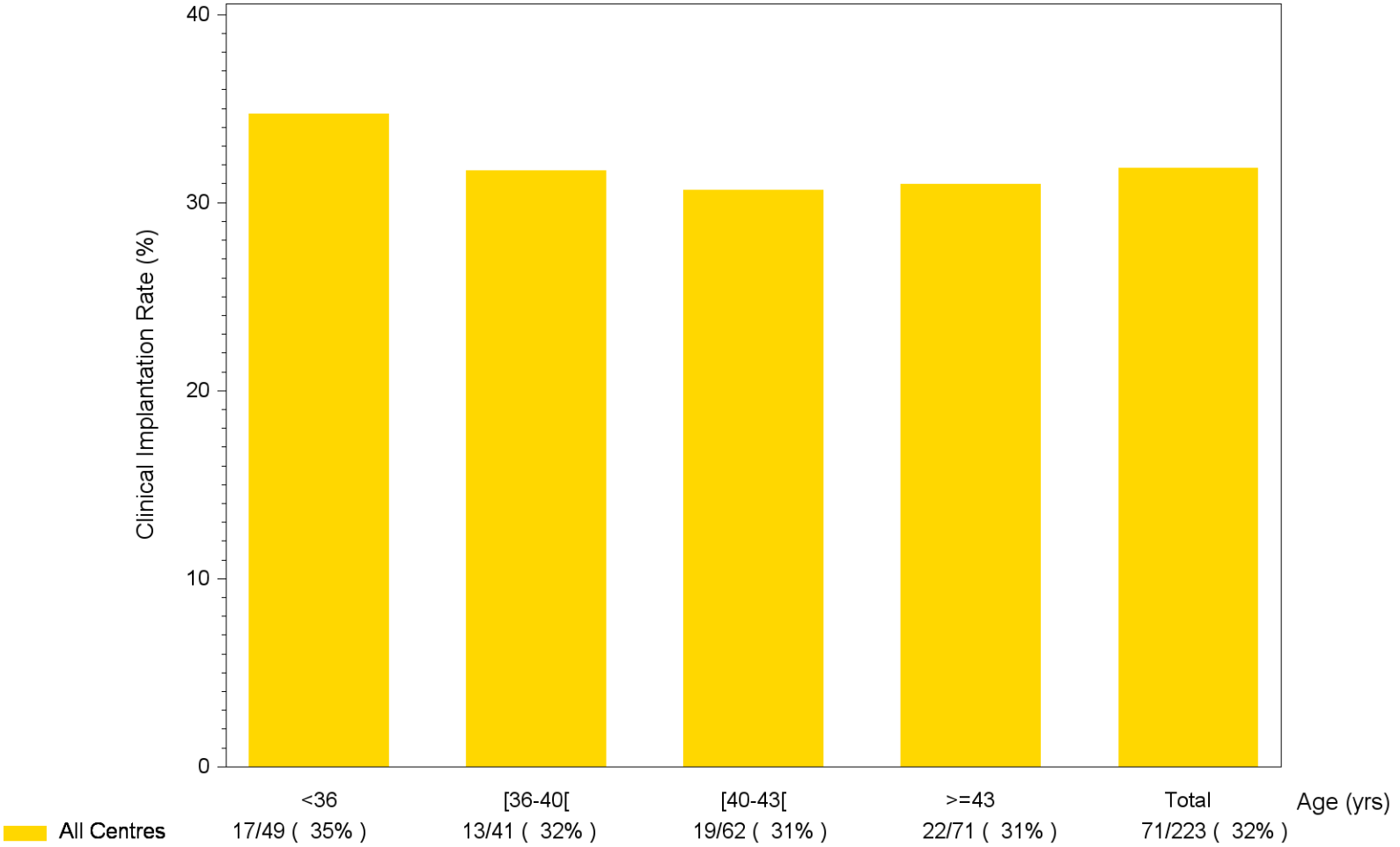
NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 7.9 Thawed oocytes recipient cycles: Number of deliveries according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=277, Missing=0)** | | | | | |
| Initiated cycles | 67 | 51 | 72 | 87 | 277 |
| At least one oocyte received | 55 | 40 | 64 | 68 | 227 |
| Transfers | 47 | 39 | 57 | 63 | 206 |
| Number per delivery: 1/2/3 | 12/0/0 | 9/0/0 | 16/0/0 | 15/0/0 | 52/0/0 |
| Delivery rate<br>per initiated cycle | 12/65 (18.5%)<br>(17.9% - 20.9%) | 9/49 (18.4%)<br>(17.6% - 21.6%) | 16/71 (22.5%)<br>(22.2% - 23.6%) | 15/85 (17.6%)<br>(17.2% - 19.5%) | 52/270 (19.3%)<br>(18.8% - 21.3%) |
| Delivery rate<br>per cycles with at least one oocyte received | 12/53 (22.6%)<br>(21.8% - 25.5%) | 9/38 (23.7%)<br>(22.5% - 27.5%) | 16/63 (25.4%)<br>(25.0% - 26.6%) | 15/66 (22.7%)<br>(22.1% - 25.0%) | 52/220 (23.6%)<br>(22.9% - 26.0%) |
| Delivery rate<br>per embryo transfer | 12/45 (26.7%)<br>(25.5% - 29.8%) | 9/37 (24.3%)<br>(23.1% - 28.2%) | 16/56 (28.6%)<br>(28.1% - 29.8%) | 15/61 (24.6%)<br>(23.8% - 27.0%) | 52/199 (26.1%)<br>(25.2% - 28.6%) |

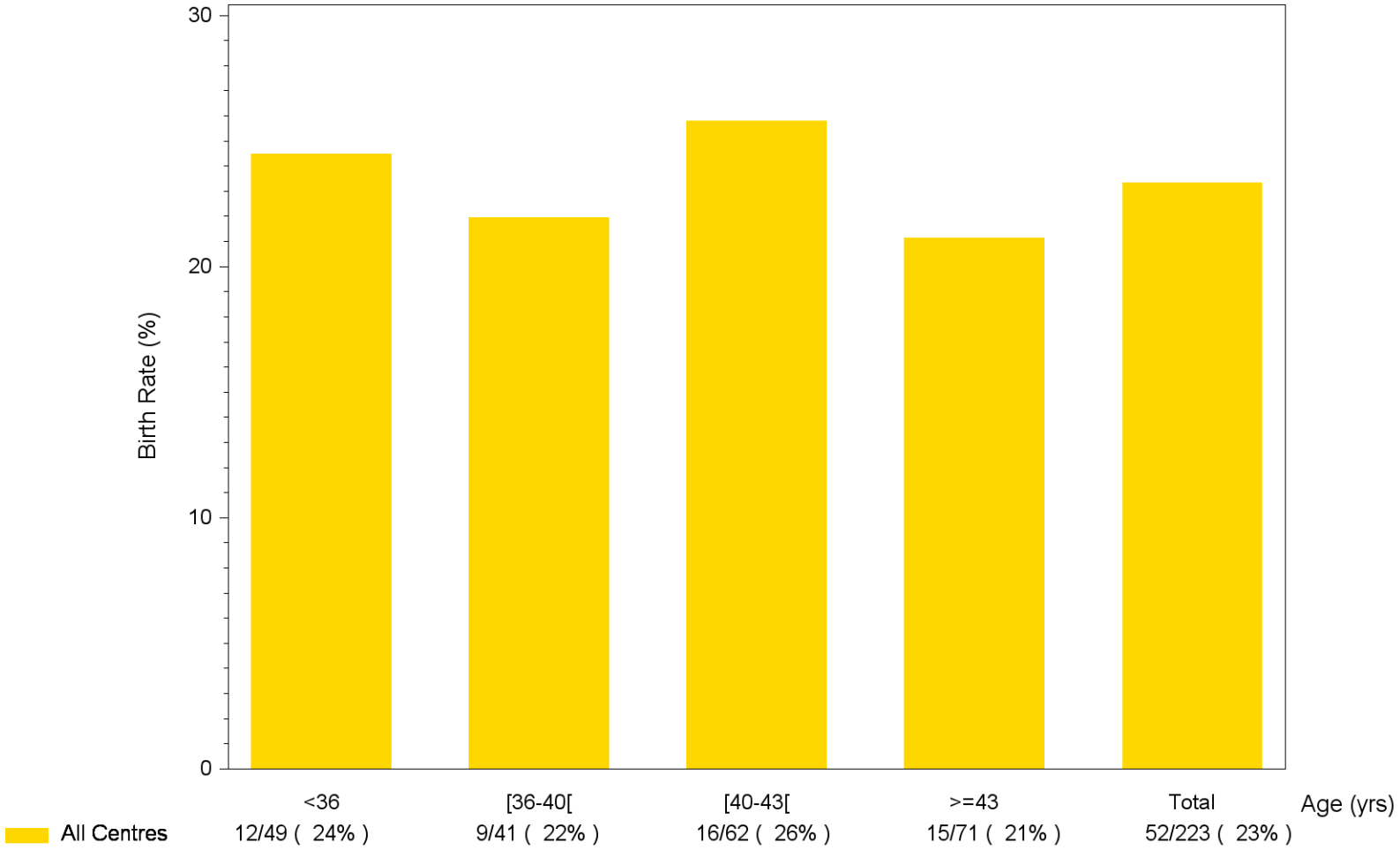
NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing delivery as negative and positive, respectively.

**Figure 7.10 Thawed oocytes recipient cycles: Clinical implantation rate (No. of FHB) per transferred embryo according to age**



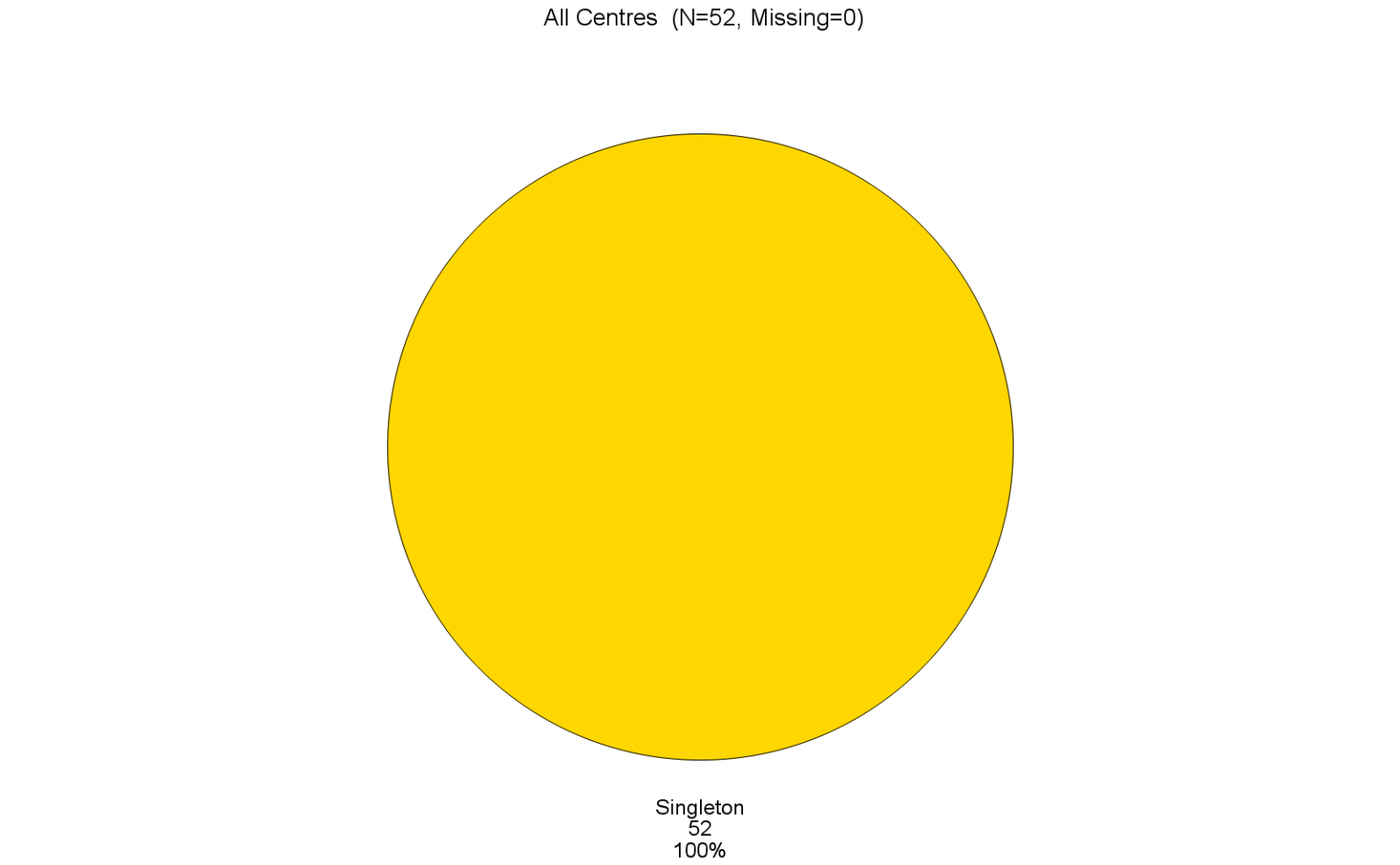

n/N (%) where n = Total number of FHB; N = Total number of embryos transferred; %= n*100/N; NA = No cycles with data available.

**Figure 7.11 Thawed oocytes recipient cycles: Birth rate per transferred embryo according to age**




n/N (%) where n = Total number of births; N = Total number of embryos transferred; %= n*100/N; NA = No cycles with data available.

**Figure 7.12 Thawed oocytes recipient cycles: Number of deliveries**

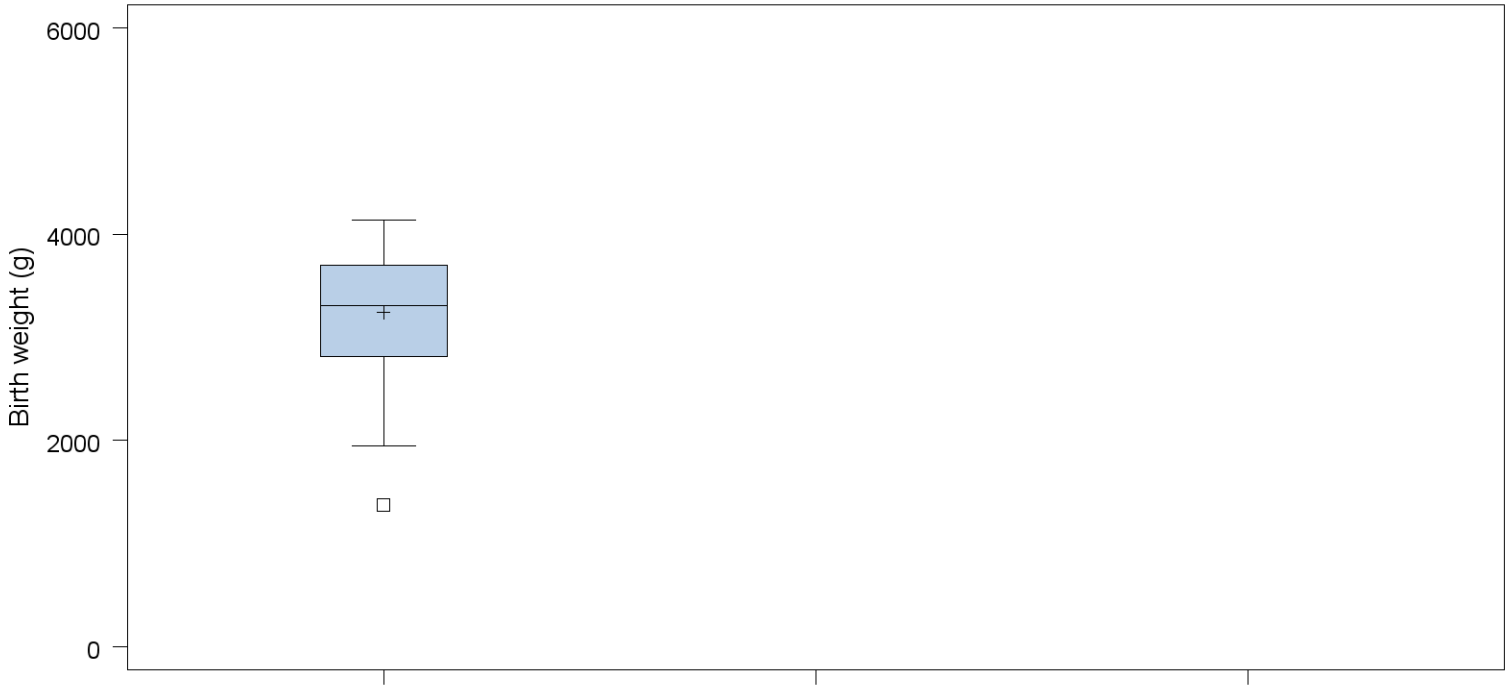



Deliveries of twins or triplets are only counted once.

**Table 7.13 Thawed oocytes recipient cycles: Sex of babies**

| | All Centres (N=52, Missing=0) |
|---|---|
| **Sex of baby** | |
| Male | 21/52 ( 40.38%) |
| Female | 29/52 ( 55.77%) |
| Unknown | 2/52 ( 3.85%) |

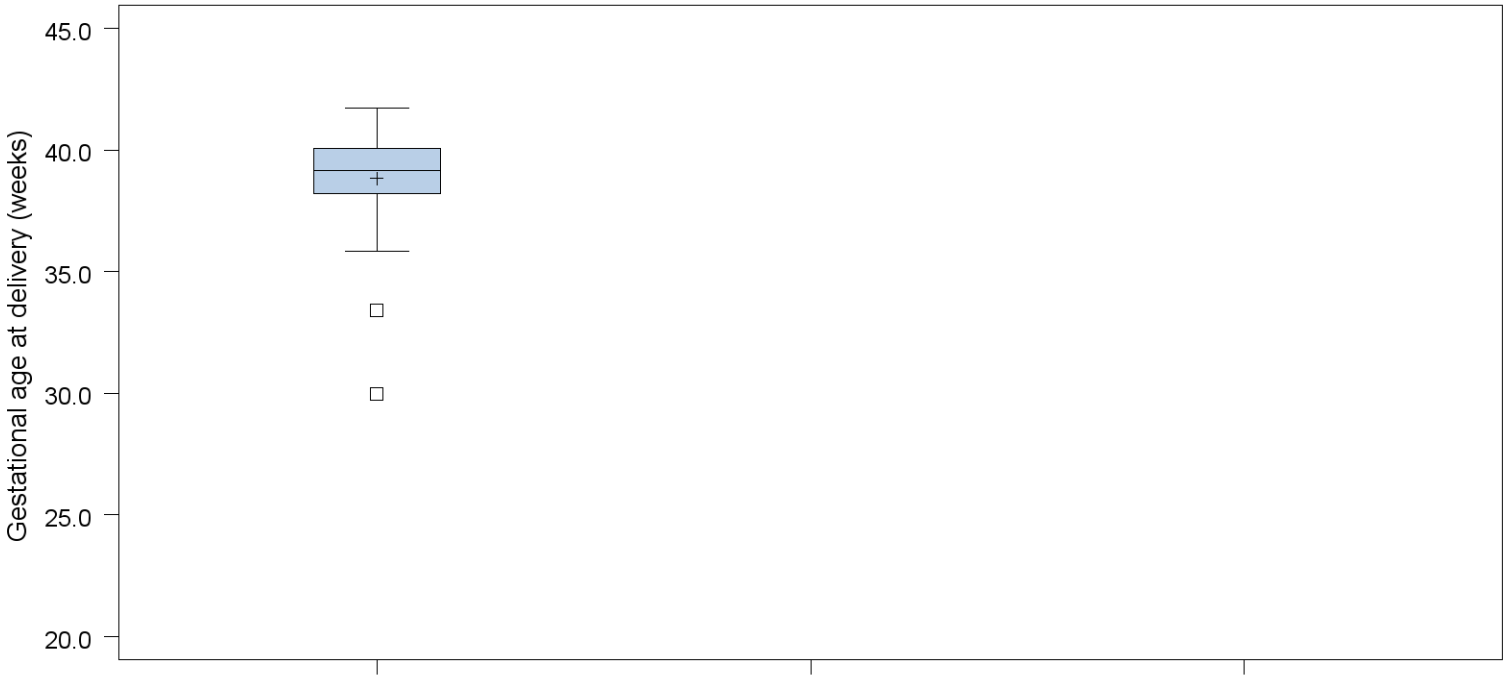
**Figure 7.14 Thawed oocytes recipient cycles: Birth weight (boxplot)**




| | All Centres |
|---|---|
| N | 50 |
| Missing | 2 |
| Mean | 3242.9 |
| SD | 574.35 |
| Median | 3305.0 |
| (Min,Max) | (1380,4135) |
| (Q1,Q3) | (2810,3700) |

Box plot shows median and interquartile range. Whiskers are drawn at (Q3+1.5*IQR, Q1-1.5*IQR).
Q1, Q3 = 1st and 3rd quartile, IQR = Q3 - Q1. +-sign indicates mean value.

**Figure 7.15 Thawed oocytes recipient cycles: Gestational age at delivery (boxplot)**




| | All Centres |
|---|---|
| N | 52 |
| Missing | 0 |
| Mean | 38,9 |
| SD | 1,98 |
| Median | 39,1 |
| (Min,Max) | (30,42) |
| (Q1,Q3) | (38,40) |

Box plot shows median and interquartile range. Whiskers are drawn at (Q3+1.5*IQR, Q1-1.5*IQR).
Q1, Q3 = 1st and 3rd quartile, IQR = Q3 - Q1. +-sign indicates mean value.
Twin or triplet birth is counted as one birth event.

**Table 7.16 Thawed oocytes recipient cycles: Prevalence of preterm birth according to type of pregnancy**

| Gestational age at delivery (weeks) | Type of pregnancy: Single birth event | Twin birth event | Triplet birth event | Total birth events |
|---|---|---|---|---|
| **All Centres (N=52, Missing=0)** | | | | |
| < 32 | 1 (1.9%) | 0 | 0 | 1 (1.9%) |
| [32-37[ | 4 (7.7%) | 0 | 0 | 4 (7.7%) |
| >=37 | 47 (90.4%) | 0 | 0 | 47 (90.4%) |
| Total | 52 (100.0%) | 0 | 0 | 52 (100.0%) |

Twin or triplet birth is counted as one birth event.

**Table 7.17 Thawed oocytes recipient cycles: Prevalence of low birth weight according to type of pregnancy**

| | Type of pregnancy | | | |
|---|---|---|---|---|
| **Birth weight (g)** | **Singletons** | **Twins** | **Triplets** | **Total** |
| **All Centres (N=50, Missing=2)** | | | | |
| < 1500 | 1 (2.0%) | 0 | 0 | 1 (2.0%) |
| [1500-2500[ | 3 (6.0%) | 0 | 0 | 3 (6.0%) |
| >= 2500 | 46 (92.0%) | 0 | 0 | 46 (92.0%) |
| Total | 50 (100.0%) | 0 | 0 | 50 (100.0%) |

## Section 8: Cryo embryo recipient cycles (donor eggs)

### Table 8.1 Cryo embryo recipient cycles (donor eggs): Overview of cryo cycles

| Cryo cycle | All Centres | |
|---|---|---|
| Initiated | 815 | (100.0%) |
| Cancelled | 6 | (0.7%) |
| Thawed | 809 | (99.3%) |
| Embryo Transfer | 790 | (96.9%) |

**Table 8.2 Cryo embryo recipient cycles (donor eggs): Number of embryos transferred**

| | All Centres |
|---|---|
| **Number of cycles with transfer** | 790 |
| **Number of embryos transferred** | |
| 1 | 543/790 ( 68.73%) |
| 2 | 247/790 ( 31.27%) |
| **Total number of embryos transferred** | 1037 |

Based on all cycles with at least one embryo transferred.

**Table 8.3 Cryo embryo recipient cycles (donor eggs): Pituitary inhibition**

| | Statistic | All Centres (N=815, Missing=0) |
|---|---|---|
| **Pituitary inhibition** | | |
| Yes | n/N (%) | 7/815 ( 0.86%) |
| No | n/N (%) | 808/815 ( 99.14%) |

**Table 8.4 Cryo embryo recipient cycles (donor eggs): Stimulation protocol**

| | Statistic | All Centres (N=815) |
|---|---|---|
| Stimulation with clomiphene | n/N (%) | 0/800 ( 0.00%) |
| Stimulation with gonadotrophins | n/N (%) | 7/800 ( 0.88%) |
| Substitution cycle | n/N (%) | 297/813 ( 36.53%) |
| Spontaneous/modified cycle | n/N (%) | 90/813 ( 11.07%) |
| Other stimulation | n/N (%) | 0/815 ( 0.00%) |

**Table 8.5 Cryo embryo recipient cycles (donor eggs): Number of HCG+ pregnancies according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=815, Missing=0)** | | | | | |
| Initiated cycles | 167 | 131 | 172 | 345 | 815 |
| Thawing cycles | 165 | 130 | 171 | 343 | 809 |
| Transfers | 160 | 124 | 168 | 338 | 790 |
| HCG +<br>per initiated cycle | 71/167 (42.5%)<br>(42.5% - 42.5%) | 44/130 (33.8%)<br>(33.6% - 34.4%) | 65/172 (37.8%)<br>(37.8% - 37.8%) | 134/344 (39.0%)<br>(38.8% - 39.1%) | 314/813 (38.6%)<br>(38.5% - 38.8%) |
| HCG +<br>per thawing cycles | 71/165 (43.0%)<br>(43.0% - 43.0%) | 44/129 (34.1%)<br>(33.8% - 34.6%) | 65/171 (38.0%)<br>(38.0% - 38.0%) | 134/342 (39.2%)<br>(39.1% - 39.4%) | 314/807 (38.9%)<br>(38.8% - 39.1%) |
| HCG +<br>per embryo transfer | 71/160 (44.4%)<br>(44.4% - 44.4%) | 44/123 (35.8%)<br>(35.5% - 36.3%) | 65/168 (38.7%)<br>(38.7% - 38.7%) | 134/337 (39.8%)<br>(39.6% - 39.9%) | 314/788 (39.8%)<br>(39.7% - 40.0%) |

NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing HCG results as negative and positive, respectively.

**Table 8.6 Cryo embryo recipient cycles (donor eggs): Number of clinical pregnancies according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=815, Missing=0)** | | | | | |
| Initiated cycles | 167 | 131 | 172 | 345 | 815 |
| Thawing cycles | 165 | 130 | 171 | 343 | 809 |
| Transfers | 160 | 124 | 168 | 338 | 790 |
| Clinical Pregnancy per initiated cycle | 56/162 (34.6%) (33.5% - 36.5%) | 32/123 (26.0%) (24.4% - 30.5%) | 49/160 (30.6%) (28.5% - 35.5%) | 97/319 (30.4%) (28.1% - 35.7%) | 234/764 (30.6%) (28.7% - 35.0%) |
| Clinical Pregnancy per thawing cycles | 56/160 (35.0%) (33.9% - 37.0%) | 32/122 (26.2%) (24.6% - 30.8%) | 49/159 (30.8%) (28.7% - 35.7%) | 97/317 (30.6%) (28.3% - 35.9%) | 234/758 (30.9%) (28.9% - 35.2%) |
| Clinical Pregnancy per embryo transfer | 56/155 (36.1%) (35.0% - 38.1%) | 32/116 (27.6%) (25.8% - 32.3%) | 49/156 (31.4%) (29.2% - 36.3%) | 97/312 (31.1%) (28.7% - 36.4%) | 234/739 (31.7%) (29.6% - 36.1%) |

NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 8.7 Cryo embryo recipient cycles (donor eggs): Number of clinical pregnancies including FHB according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=815, Missing=0)** | | | | | |
| Initiated cycles | 167 | 131 | 172 | 345 | 815 |
| Thawing cycles | 165 | 130 | 171 | 343 | 809 |
| Transfers | 160 | 124 | 168 | 338 | 790 |
| FHB: 1/2/3 | 52 | 31 | 49 | 97 | 229 |
| Clinical Pregnancy + FHB per initiated cycle | 52/162 (32.1%) (31.1% - 34.1%) | 31/123 (25.2%) (23.7% - 29.8%) | 49/160 (30.6%) (28.5% - 35.5%) | 97/319 (30.4%) (28.1% - 35.7%) | 229/764 (30.0%) (28.1% - 34.4%) |
| Clinical Pregnancy + FHB per thawing cycles | 52/160 (32.5%) (31.5% - 34.5%) | 31/122 (25.4%) (23.8% - 30.0%) | 49/159 (30.8%) (28.7% - 35.7%) | 97/317 (30.6%) (28.3% - 35.9%) | 229/758 (30.2%) (28.3% - 34.6%) |
| Clinical Pregnancy + FHB per embryo transfer | 52/155 (33.5%) (32.5% - 35.6%) | 31/116 (26.7%) (25.0% - 31.5%) | 49/156 (31.4%) (29.2% - 36.3%) | 97/312 (31.1%) (28.7% - 36.4%) | 229/739 (31.0%) (29.0% - 35.4%) |

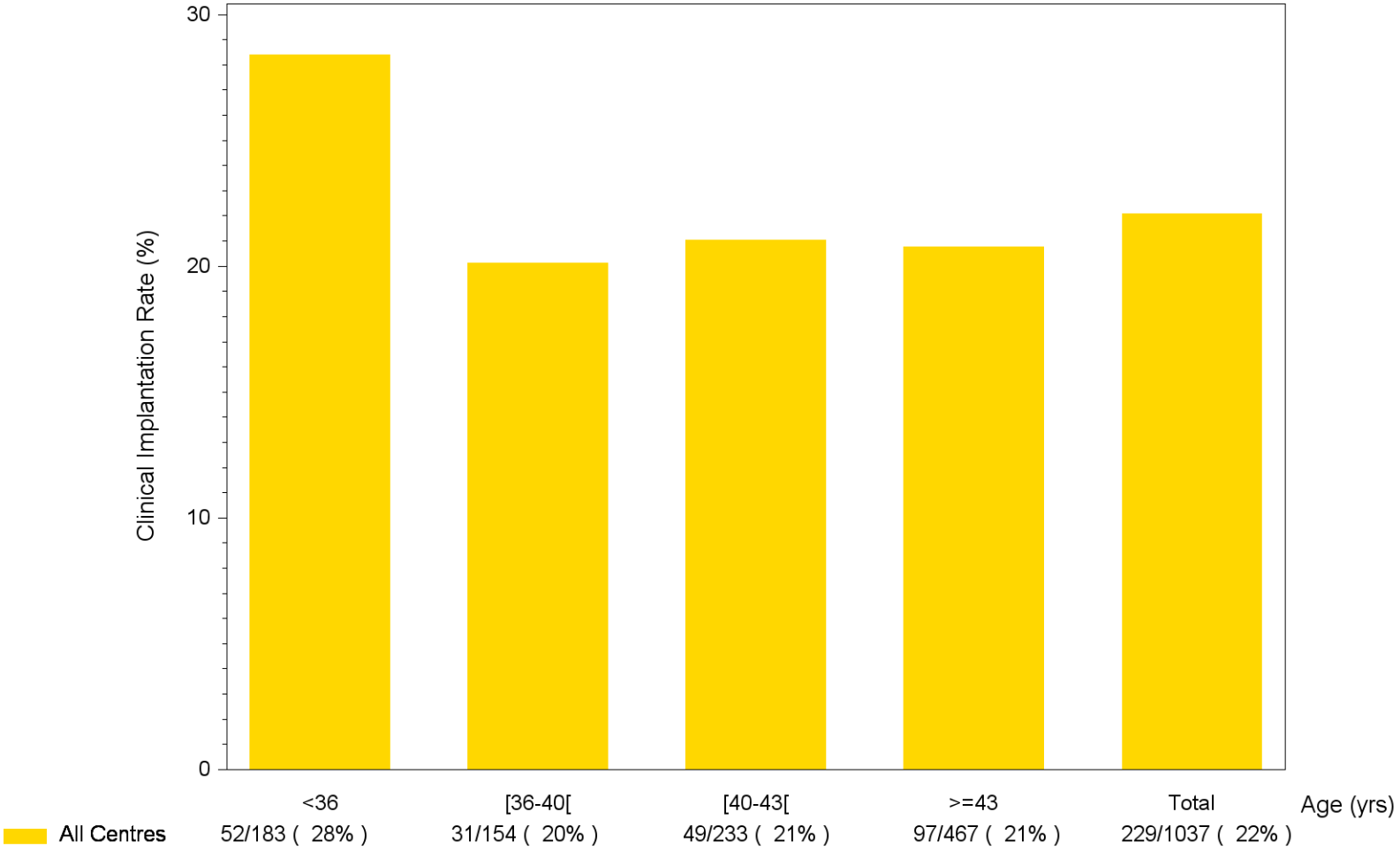
NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing results as negative and positive, respectively.

**Table 8.8 Cryo embryo recipient cycles (donor eggs): Number of deliveries according to age**

| Age (yrs) | < 36 | [36-40[ | [40-43[ | >=43 | All ages |
|---|---|---|---|---|---|
| **All Centres (N=815, Missing=0)** | | | | | |
| Initiated cycles | 167 | 131 | 172 | 345 | 815 |
| Thawing cycles | 165 | 130 | 171 | 343 | 809 |
| Transfers | 160 | 124 | 168 | 338 | 790 |
| Number per delivery: 1/2/3 | 44/1/0 | 19/3/0 | 33/6/0 | 66/8/0 | 162/18/0 |
| Delivery rate<br>per initiated cycle | 45/163 (27.6%)<br>(26.9% - 29.3%) | 22/122 (18.0%)<br>(16.8% - 23.7%) | 39/157 (24.8%)<br>(22.7% - 31.4%) | 74/319 (23.2%)<br>(21.4% - 29.0%) | 180/761 (23.7%)<br>(22.1% - 28.7%) |
| Delivery rate<br>per thawing cycles | 45/161 (28.0%)<br>(27.3% - 29.7%) | 22/121 (18.2%)<br>(16.9% - 23.8%) | 39/156 (25.0%)<br>(22.8% - 31.6%) | 74/317 (23.3%)<br>(21.6% - 29.2%) | 180/755 (23.8%)<br>(22.2% - 28.9%) |
| Delivery rate<br>per embryo transfer | 45/156 (28.8%)<br>(28.1% - 30.6%) | 22/115 (19.1%)<br>(17.7% - 25.0%) | 39/153 (25.5%)<br>(23.2% - 32.1%) | 74/312 (23.7%)<br>(21.9% - 29.6%) | 180/736 (24.5%)<br>(22.8% - 29.6%) |

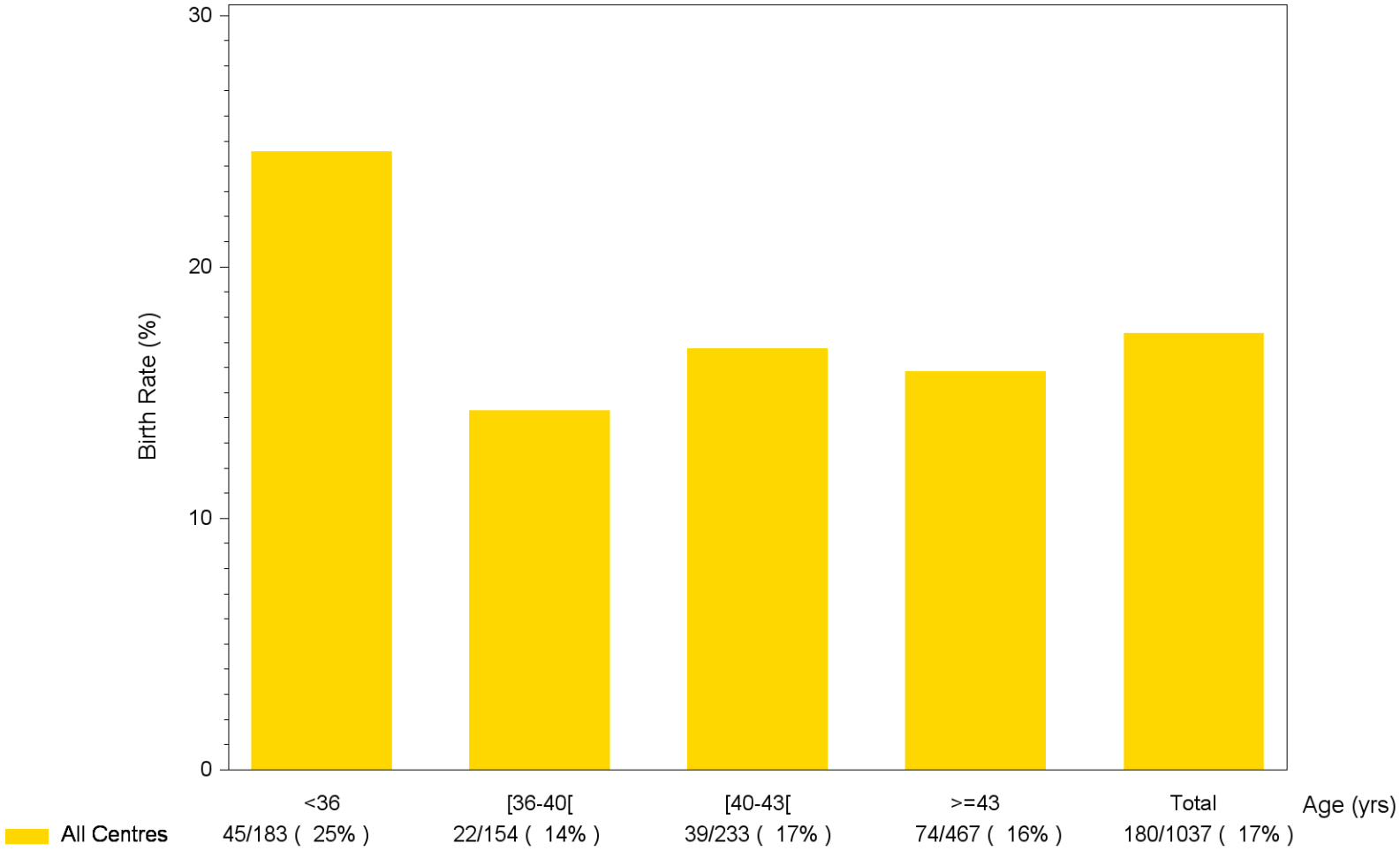
NA=no cycles with data available.
In the calculation of the ratios, only cycles with available data are considered. In the line underneath, the range expresses the minimum and maximum possible rates when accounting for missing data by considering missing delivery as negative and positive, respectively.

**Figure 8.9 Cryo embryo recipient cycles (donor eggs): Clinical implantation rate (No. of FHB) per transferred embryo according to age**



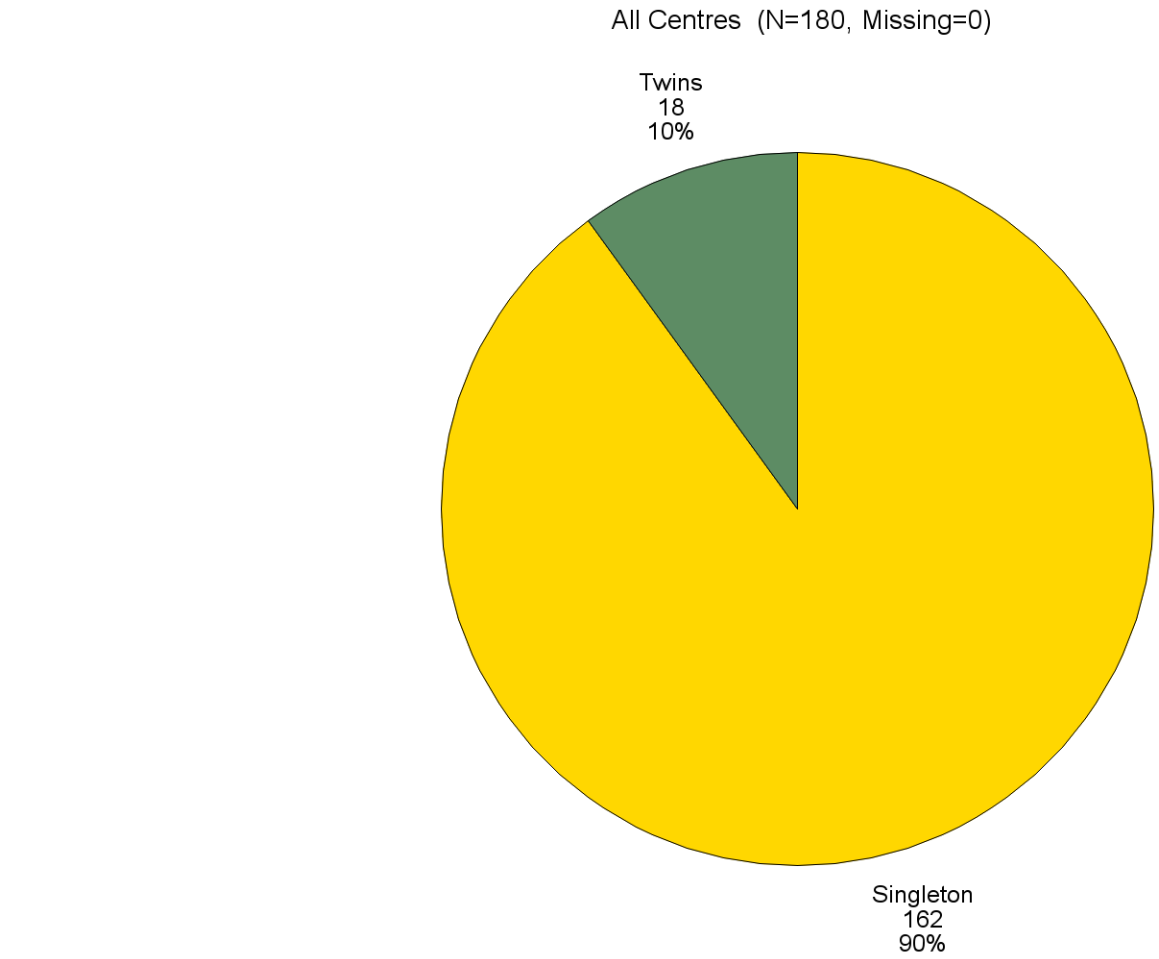

n/N (%) where n = Total number of FHB; N = Total number of embryos transferred; %= n*100/N; NA = No cycles with data available.

**Figure 8.10 Cryo embryo recipient cycles (donor eggs): Birth rate per transferred embryo according to age**




n/N (%) where n = Total number of births; N = Total number of embryos transferred; %= n*100/N; NA = No cycles with data available.

**Figure 8.11 Cryo embryo recipient cycles (donor eggs): Number of deliveries**

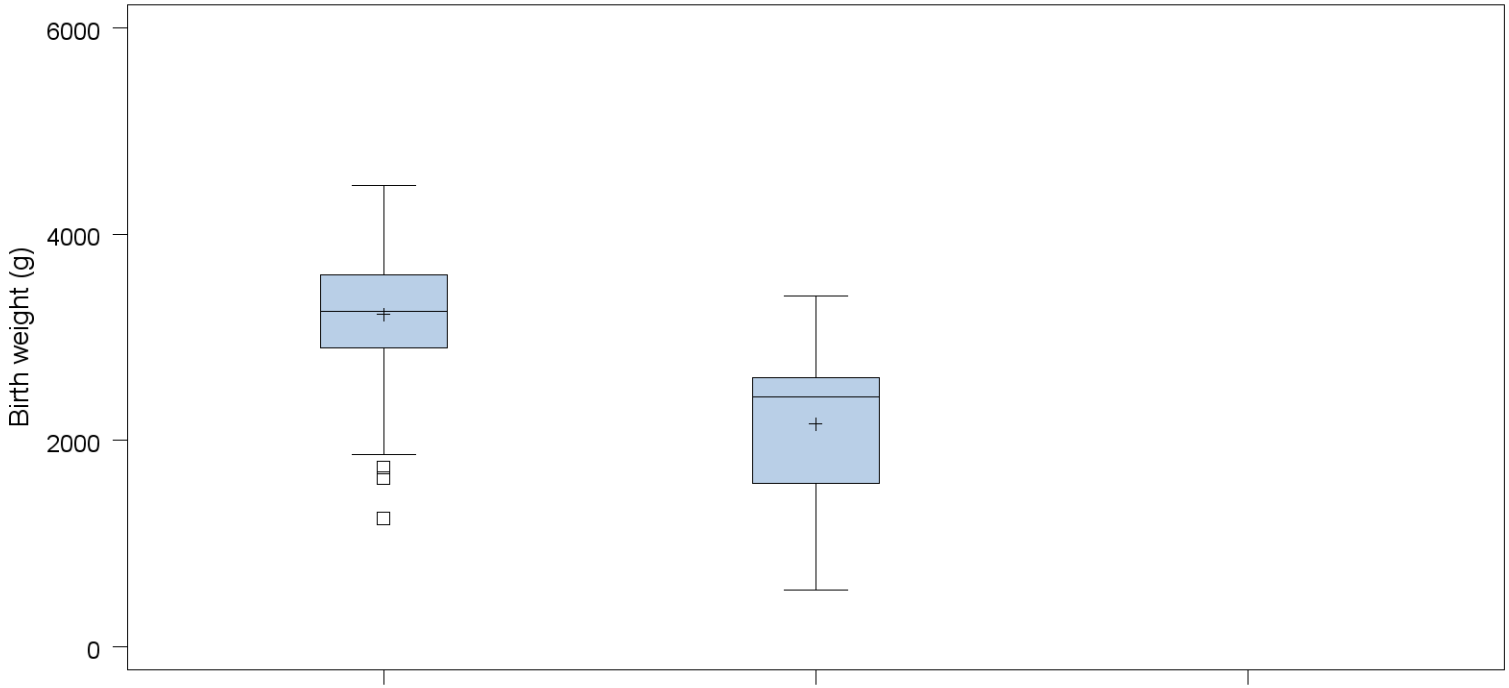



Deliveries of twins or triplets are only counted once.

**Table 8.12 Cryo embryo recipient cycles (donor eggs): Sex of babies**

| | All Centres (N=198, Missing=0) |
|---|---|
| **Sex of baby** | |
| Male | 82/198 ( 41.41%) |
| Female | 112/198 ( 56.57%) |
| Unknown | 4/198 ( 2.02%) |

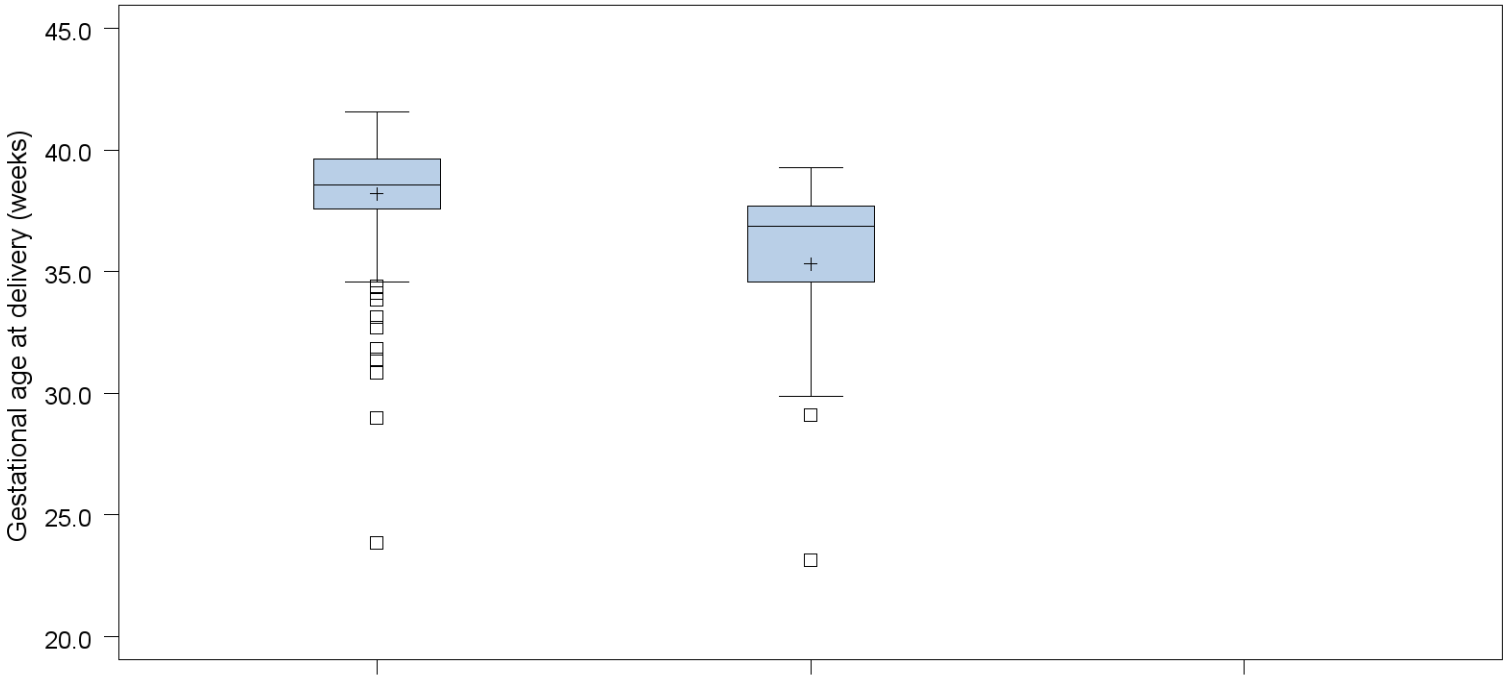
**Figure 8.13 Cryo embryo recipient cycles (donor eggs): Birth weight (boxplot)**




| | All Centres | |
|---|---|---|
| N | 157 | 34 |
| Missing | 5 | 2 |
| Mean | 3223.9 | 2165.3 |
| SD | 552.73 | 713.53 |
| Median | 3250.0 | 2420.0 |
| (Min,Max) | (1250,4470) | (550,3400) |
| (Q1,Q3) | (2900,3605) | (1585,2610) |

Box plot shows median and interquartile range. Whiskers are drawn at (Q3+1.5*IQR, Q1-1.5*IQR).
Q1, Q3 = 1st and 3rd quartile, IQR = Q3 - Q1. +-sign indicates mean value.

**Figure 8.14 Cryo embryo recipient cycles (donor eggs): Gestational age at delivery (boxplot)**




| | All Centres | |
|---|---|---|
| N | 160 | 18 |
| Missing | 2 | 0 |
| Mean | 38,2 | 35,3 |
| SD | 2,38 | 4,08 |
| Median | 38,6 | 36,9 |
| (Min,Max) | (24,42) | (23,39) |
| (Q1,Q3) | (38,40) | (35,38) |

Box plot shows median and interquartile range. Whiskers are drawn at (Q3+1.5*IQR, Q1-1.5*IQR).
Q1, Q3 = 1st and 3rd quartile, IQR = Q3 - Q1. +-sign indicates mean value.
Twin or triplet birth is counted as one birth event.

**Table 8.15 Cryo embryo recipient cycles (donor eggs): Prevalence of preterm birth according to type of pregnancy**

| Gestational age at delivery (weeks) | Type of pregnancy: Single birth event | Twin birth event | Triplet birth event | Total birth events |
|---|---|---|---|---|
| **All Centres (N=178, Missing=2)** | | | | |
| < 32 | 5 (3.1%) | 3 (16.7%) | 0 | 8 (4.5%) |
| [32-37[ | 23 (14.4%) | 6 (33.3%) | 0 | 29 (16.3%) |
| >=37 | 132 (82.5%) | 9 (50.0%) | 0 | 141 (79.2%) |
| Total | 160 (100.0%) | 18 (100.0%) | 0 | 178 (100.0%) |

Twin or triplet birth is counted as one birth event.

**Table 8.16 Cryo embryo recipient cycles (donor eggs): Prevalence of low birth weight according to type of pregnancy**

| | Type of pregnancy | | | |
|---|---|---|---|---|
| **Birth weight (g)** | **Singletons** | **Twins** | **Triplets** | **Total** |
| **All Centres (N=191, Missing=7)** | | | | |
| < 1500 | 1 (0.6%) | 8 (23.5%) | 0 | 9 (4.7%) |
| [1500-2500[ | 14 (8.9%) | 16 (47.1%) | 0 | 30 (15.7%) |
| >= 2500 | 142 (90.4%) | 10 (29.4%) | 0 | 152 (79.6%) |
| Total | 157 (100.0%) | 34 (100.0%) | 0 | 191 (100.0%) |

## Section 9: Appendix

### Table 9.1: Definitions

| Term | Definition |
|---|---|
| Own fresh cycle (standard) | Cycle where the patient’s own eggs are fertilized with sperm from partner or donor. This includes the intended mother in case of surrogacy. |
| Own oocyte freezing cycle | Cycle where the patient's own eggs are only frozen and not fertilized. |
| Own thawed oocyte cycle | Cycle where thawed own eggs are fertilized with sperm from partner or donor. |
| Own embryo cryo cycle | Cycle where own embryos are thawed. |
| Fresh oocyte recipient cycle | Cycle where fresh eggs from an oocyte donor are fertilized with sperm from the recipient's partner or a sperm donor |
| Thawed oocyte recipient cycle | Cycle where thawed donor eggs are fertilized with sperm from partner or donor. |
| Cryo embryo recipient cycle - donor egg | Cycle where embryos originating from an egg donor are thawed. |
| Fresh oocyte donor cycle | Cycle where all fresh oocytes are donated for third party reproduction. |
| Fresh oocyte sharing cycle | Cycle where one part of the patient's own eggs is fertilized with sperm from partner or donor and the other part is donated for third party reproduction. |
| Mixed (fresh + thawed) cycle | Cycle where a combination of a fresh and thawed cycle is performed. |
| Unspecified fresh cycle | Cycle using fresh oocytes without specific details provided. |
| Unspecified cryo cycle | Cycle using thawed oocytes or embryos without specific details provided. |
| Unknown cycle type | Cycle without any details provided. |
| Fresh surrogate carrier cycle | Cycle where fresh embryos originating from another woman’s oocyte and another man’s sperm are transferred in the surrogate carrier. |
| Freeze-all cycle | Cycle in which, after oocyte aspiration, all oocytes and/or embryos are cryopreserved and no oocytes and/or embryos are transferred to a woman in that cycle. |
| Cryo embryo recipient cycle - donor embryo | Cycle where thawed embryos originating from an embryo donor couple are thawed. |

| Term | Definition |
|---|---|
| Thawed surrogate carrier cycle | Cycle where thawed embryos originating from another woman (the intended mother) are thawed for transfer in the surrogate carrier. |
| Clinical pregnancy | The presence of intra- or extra-uterine sacs on an ultrasound scan. |
| Delivery | Birth of a child, death or alive, of >= 500g or >= 22 weeks if birth weight is unknown. |
| Gestational age | Age of an embryo or fetus calculated by adding 14 days (2 weeks) to the number of completed weeks since fertilization. |
| Birth rate per transferred embryo | Rate calculated as all births (twin or triple birth counted as 1 birth) over sum of all embryos transferred. |

**Table 9.2: List of B-centres having supplied data**

| City | Centre |
|---|---|
| Antwerpen | Centrum voor Reproductieve Geneeskunde, ZNA Middelheim |
| Braine L'alleud | Centre de Fécondation In Vitro, C.H. Interrégional Edith Cavell (CHIREC) |
| Brugge | CRG Brugge-Kortrijk, AZ Sint-Jan Brugge-Oostende AV |
| Brussel | Centrum voor Reproduktieve Geneeskunde, UZ Brussel |
| Bruxelles | Clinique de Procréation Médicalement Assistée, Hôpital Universitaire Saint-Pierre – U.L.B. |
| Bruxelles | Service de Gynécologie-Andrologie, Cliniques Universitaires Saint-Luc – U.C.L. |
| Bruxelles | Centre de FIV de l'ULB, Hôpital Erasme |
| Charleroi | Service Gyn/Obst, GHdC, Clinique Notre Dame |
| Edegem | Centrum voor Reproductieve Geneeskunde, Universitair Ziekenhuis Antwerpen |
| Genk | Genk Institute for Fertility Technology - GIFT, Ziekenhuis Oost-Limburg - St. Jan |
| Gent | Vrouwenkliniek - afdeling reproductieve geneeskunde, U.Z. – Gent |
| Gent | Centrum voor Fertiliteitstherapie, A.Z. Jan Palfijn |
| Leuven | Dienst Gynaecologie, Universitaire Ziekenhuizen KU Leuven Gasthuisberg |
| Leuven | Unit Reproductieve Geneeskunde, Regionaal Ziekenhuis Heilig Hart |
| Libramont | Centre d'Infertilité, Centre Hospitalier de l'Ardenne |
| Liège | CPMA-ULiège, Centre Hospitalier Régional de Liège |
| Namur | Service PMA, Centre Hospitalier Régional de Namur |
| Rocourt | Centre Liégeois pour l'Etude et le Traitement de la Stérilité, Clinique Saint Vincent |

## Colophon

**College van Geneesheren "Reproductieve Geneeskunde"/**

**Collège de Médecins "Médecine de la Reproduction"**

D. Stoop, President

A. Delbaere, Vice-President

L. Henry, Secretary

M. De Vos, Secretary

E. Anagnostou, Member

C. Autin, Member

S. Lie Fong, Member

A. van de Vijver, Member

**Data handling and analysis**

**Interuniversity Institute for Biostatistics and statistical Bioinformatics, Katholieke Universiteit Leuven** & Universiteit Hasselt

A. Belmans, K. Bogaerts

**Ecole de Santé Publique, Université de Liège**

A. Albert, N. Gillain, M. Guillaume, E. Husson

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