

REPORT OF THE COLLEGE OF PHYSICIANS
FOR ASSISTED REPRODUCTION THERAPY


BELGIUM 2004

SUMMARY

- OVERVIEW
- PICK-UP CYCLES (OWN'S)
- CRYOCYCLES
- RECIPIENTS
- DONORS

OVERVIEW

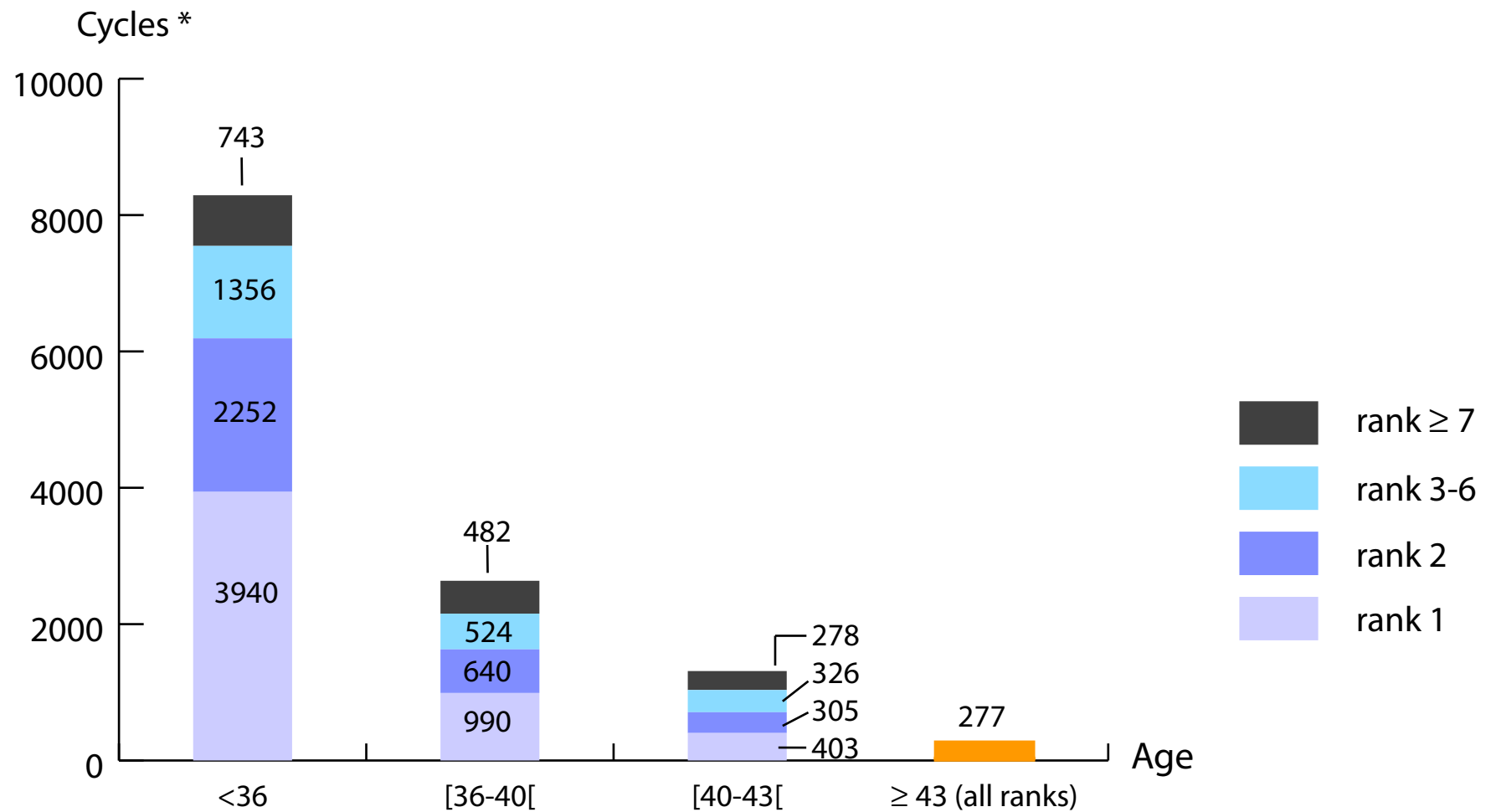
Pick-up cycles (includes own's & donors cycles)

	<i>Total</i>	With Social Security	Without Social Security
Initiated cycles	15555 (100%)	13078 (84.1%)	2477 (15.9%)
Cancellations	1012 (6.5%)	771 (76.2%)	241 (23.8%)
Retrievals	14543 (93.5%)	12307 (84.6%)	2236 (15.4%)
	 from which 404 donors cycles		

Number of Laboratory Treatment Cycles (includes 14139 own's & 513 recipients cycles)

	Patients with Social security	Patients without Social Security	<i>Total</i>
All ages & all ranks	12344 (84.2%)	2308 (15.8%)	<i>14652</i>
< 43 years old & rank<7	10559 (98.4%)	177 (1.6%)	<i>10736</i>
≥ 43 years old	195 (45.6%)	233 (54.4%)	<i>428</i>
< 43 years old & rank ≥7	422 (28.1%)	1081 (71.9%)	<i>1503</i>

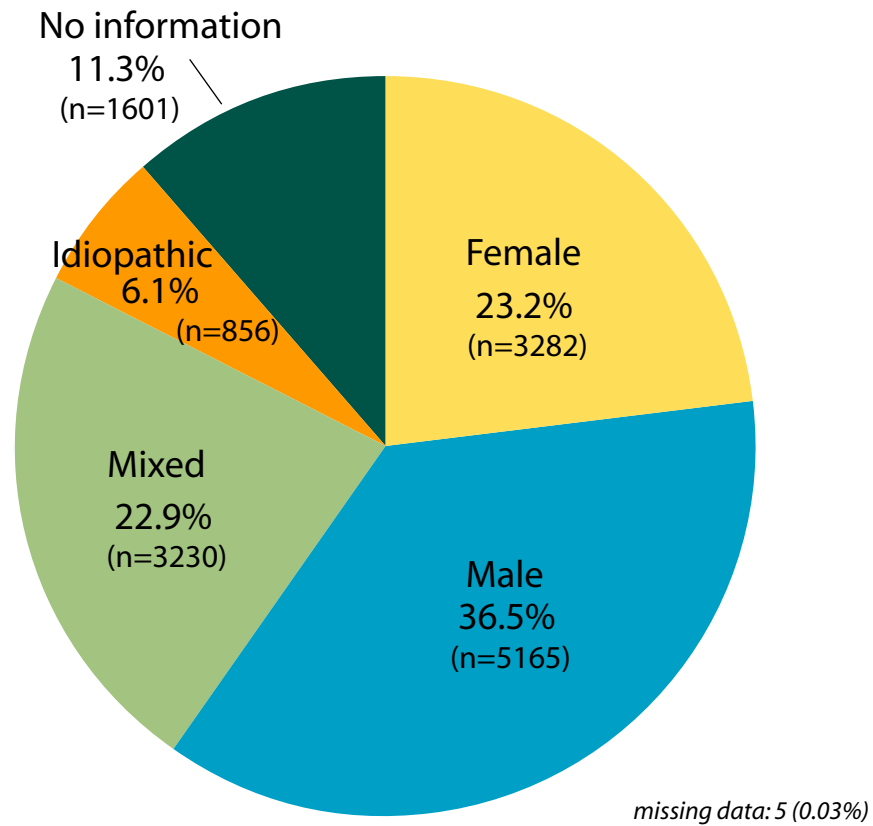
Female age and labo rank



* includes own's & recipients

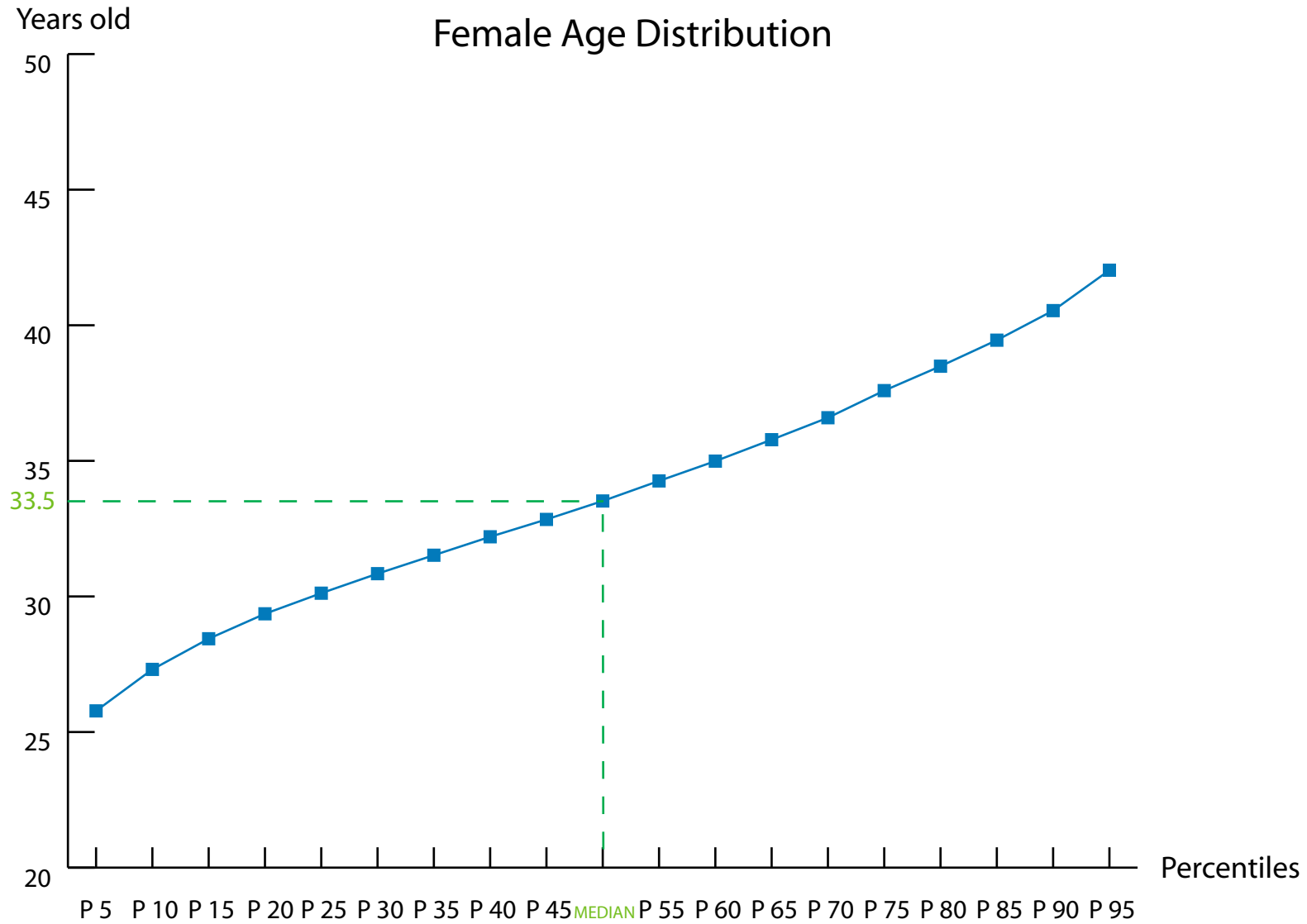
PICK-UP CYCLES PART

Indications of ART

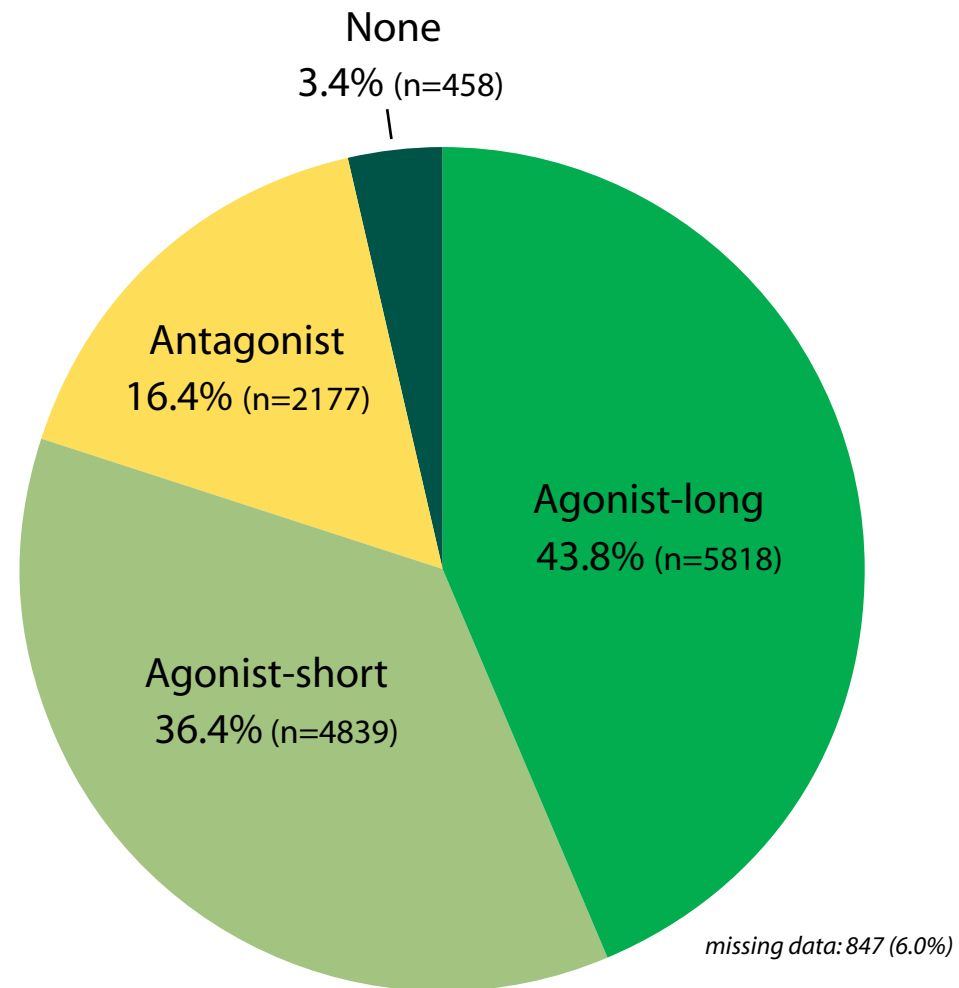


Indications of ART: Female Causes*		
	n	%
Tubal	2735	35.4%
Endometriosis	1732	22.4%
Other	1373	17.8%
Ovulatory	1262	16.3%
Genetic Anomaly	293	3.8%
Premature Ovarian Failure	274	3.5%
Immunological	56	0.7%
Total	7725	100%
<i>* some patients have more than one cause identified</i>		

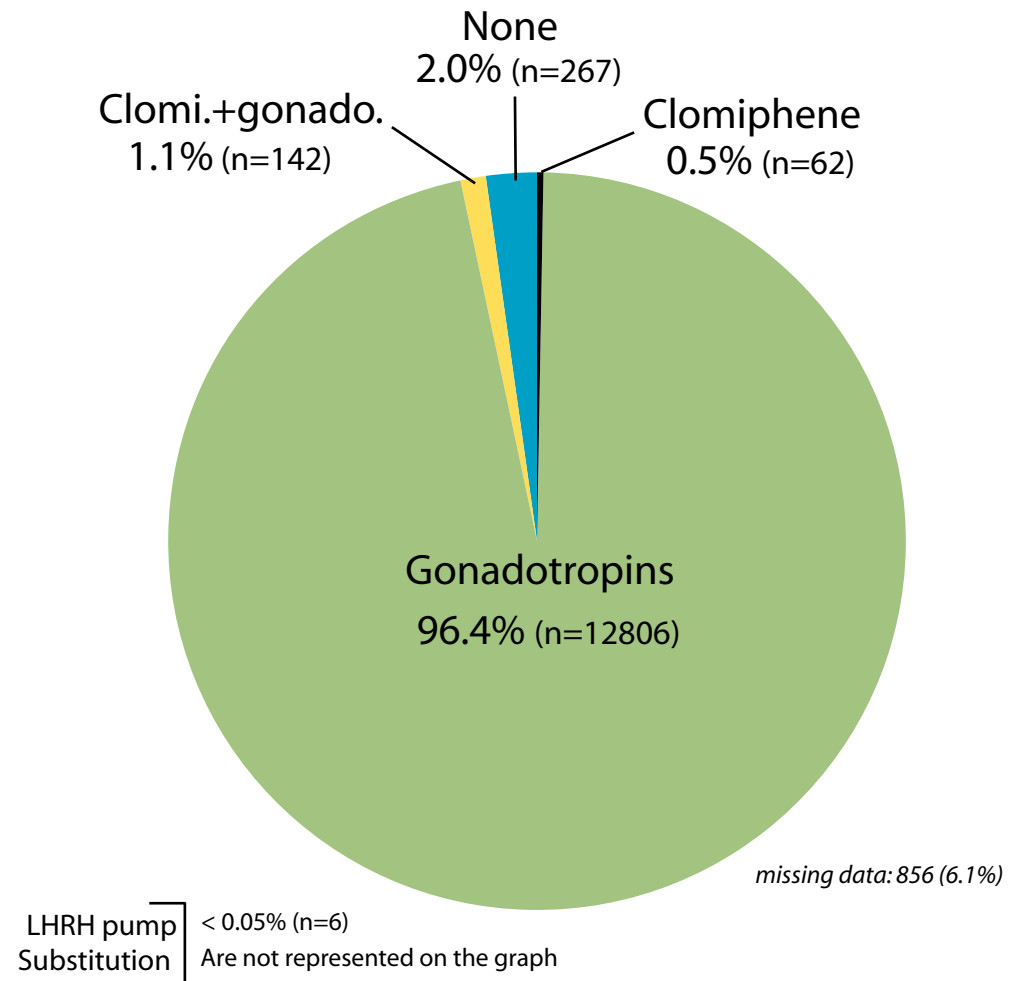
Indications of ART: Male Causes*		
	n	%
Sperm Abnormality	8447	94.9%
Genetic Anomaly	291	3.3%
Immunological	159	1.8%
Total	8897	100%
<i>* some patients have more than one cause identified</i>		

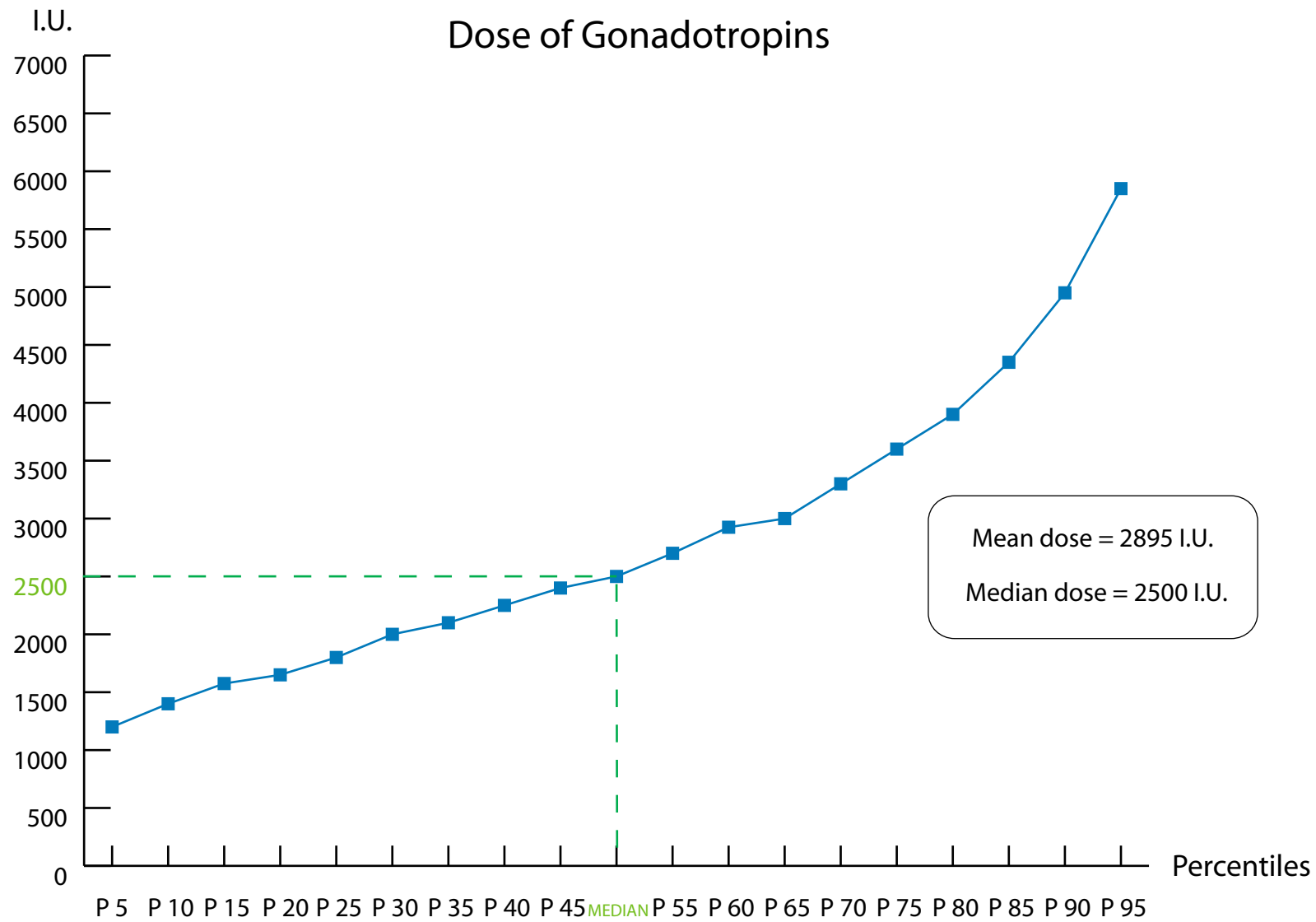


Pituitary Inhibition

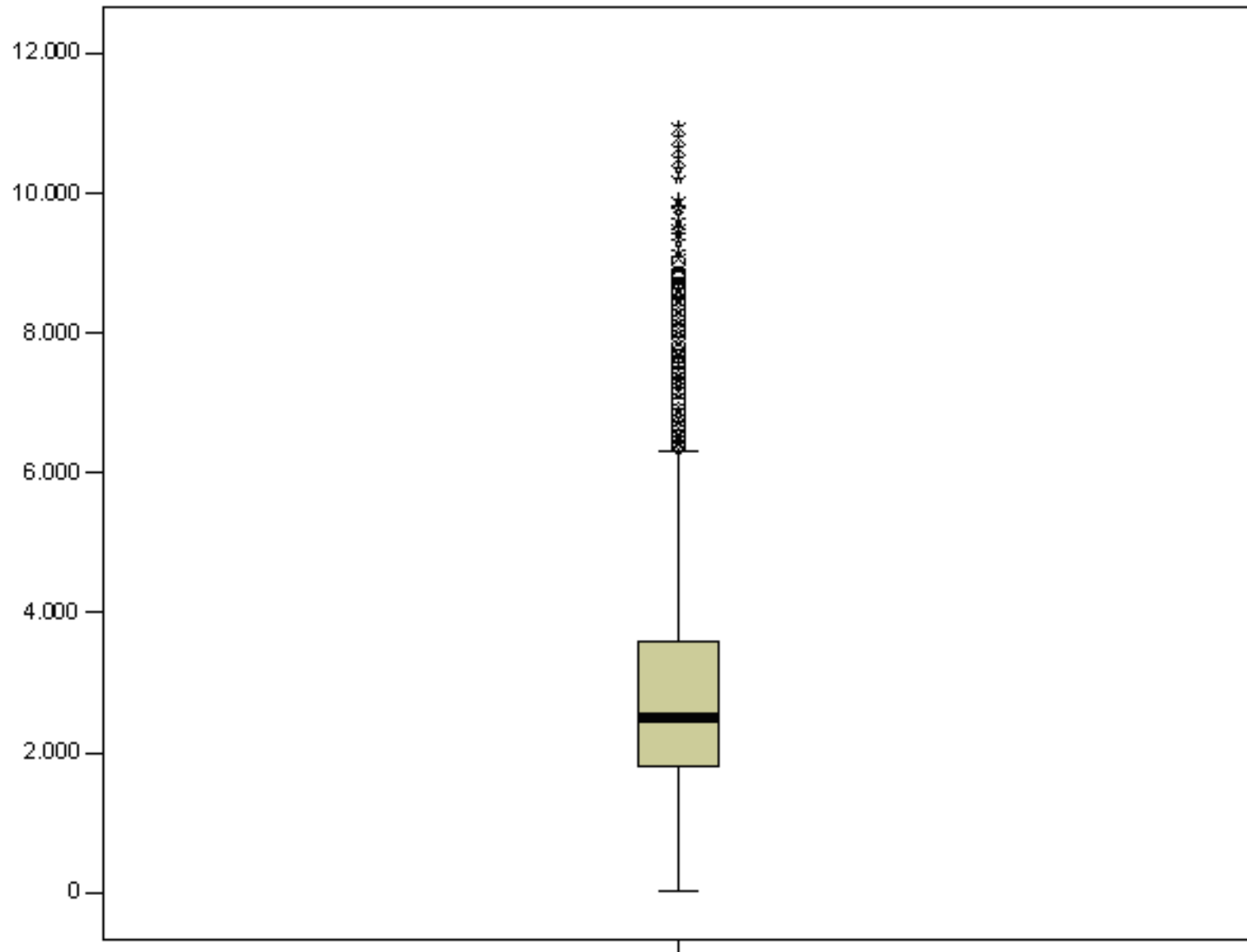


Stimulation Protocol





Dose of Gonadotropins (I.U.)



Methods of Fertilization		
	n	%
IVF ⁽¹⁾	4053	29.4
ICSI ⁽¹⁾	9123	66.1
Mixed ⁽¹⁾ (IVF + ICSI)	618	4.5
<i>Total</i> ⁽¹⁾	<i>13794</i>	<i>100</i>

(1) sperm of partner or from a donor are both included.

missing data: 345 (2.4%)

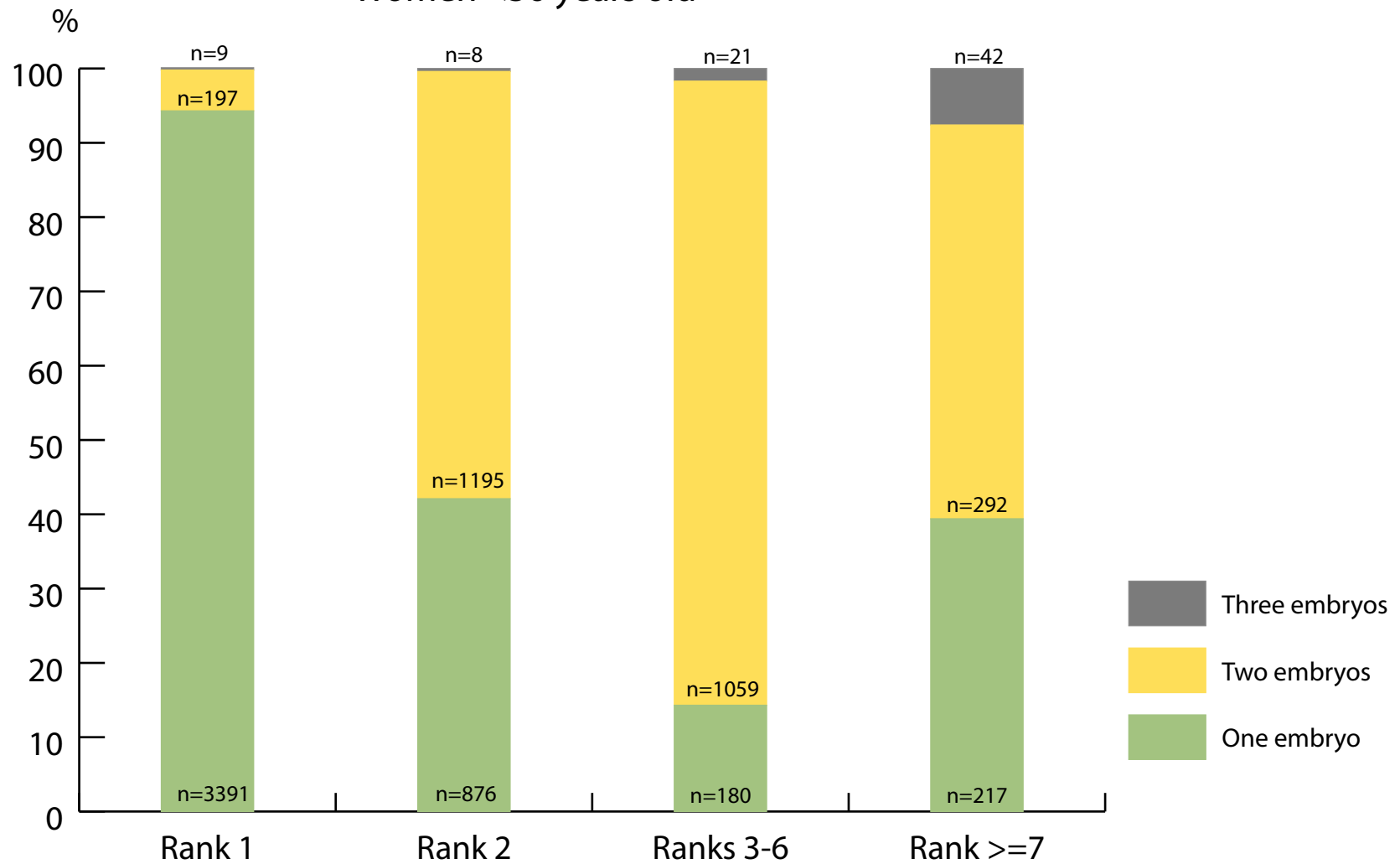
ICSI Method - Sperm from Partner			
SPERM	Fresh	Thawed	<i>Total</i>
Ejaculated	7257	324	7581 (91.8%)
Surgically Re- trieved	171	508	679 (8.2%)
<i>Total</i>	7428 (90.0%)	832 (10.0%)	8260

missing data: 553 (6.3%)

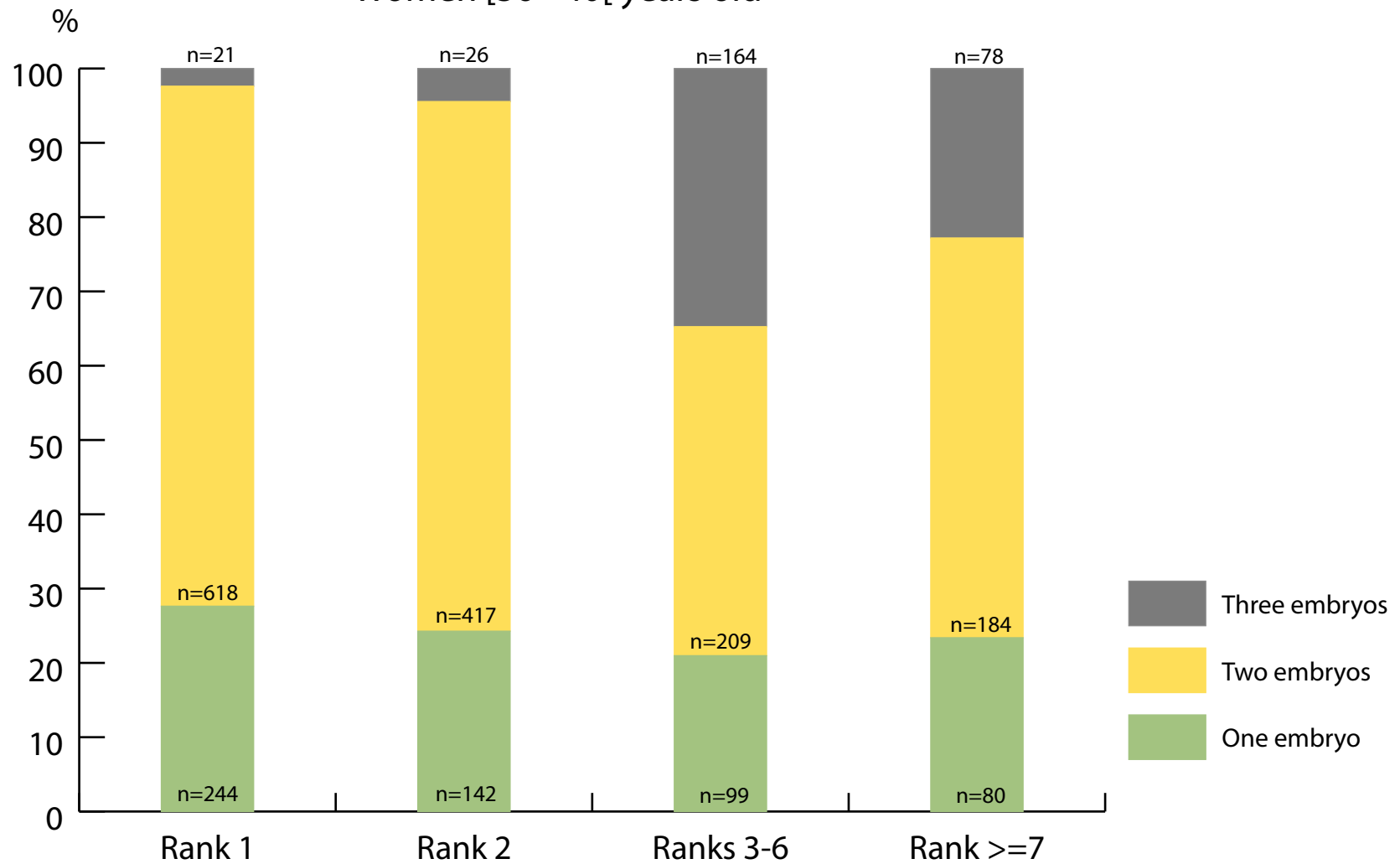
	< 36 years old					[36 - 40 [years old					[40 - 43 [years old					≥ 43 years old	<i>Total all ages</i>
	Rank 1	Rank 2	Ranks 3 - 6	Rank ≥ 7	<i>Total</i>	Rank 1	Rank 2	Ranks 3 - 6	Rank ≥ 7	<i>Total</i>	Rank 1	Rank 2	Ranks 3 - 6	Rank ≥ 7	<i>Total</i>	All ranks	<i>All ranks</i>
n° of cycles	3900	2229	1346	674	<i>8149</i>	974	634	520	431	<i>2559</i>	387	292	313	222	<i>1214</i>	<i>178</i>	<i>12100</i>
n° of transfers	3607	2086	1261	560	<i>7514</i>	887	588	478	358	<i>2311</i>	327	261	288	174	<i>1050</i>	<i>140</i>	<i>11015</i>
n° of embryos transferred																	
1	3391	876	180	217	<i>4664</i>	244	142	99	80	<i>565</i>	81	54	50	53	<i>238</i>	<i>42</i>	<i>5509</i>
2	197	1195	1059	292	<i>2743</i>	618	417	209	184	<i>1428</i>	130	97	78	48	<i>353</i>	<i>38</i>	<i>4562</i>
3	9	8	21	42	<i>80</i>	21	26	164	78	<i>289</i>	99	90	124	54	<i>367</i>	<i>38</i>	<i>774</i>
> 3	0	4	1	8	<i>13</i>	2	2	5	16	<i>25</i>	16	20	36	19	<i>91</i>	<i>22</i>	<i>151</i>

	With social security	Without social security	<i>Total</i>
n° of cycles	12112	2027	<i>14139</i>
n° of transfers	11044	1765	<i>12809</i>
n° of embryos transferred			
1	5738	509	<i>6247</i>
2	4498	881	<i>5379</i>
3	670	302	<i>972</i>
> 3	117	72	<i>189</i>

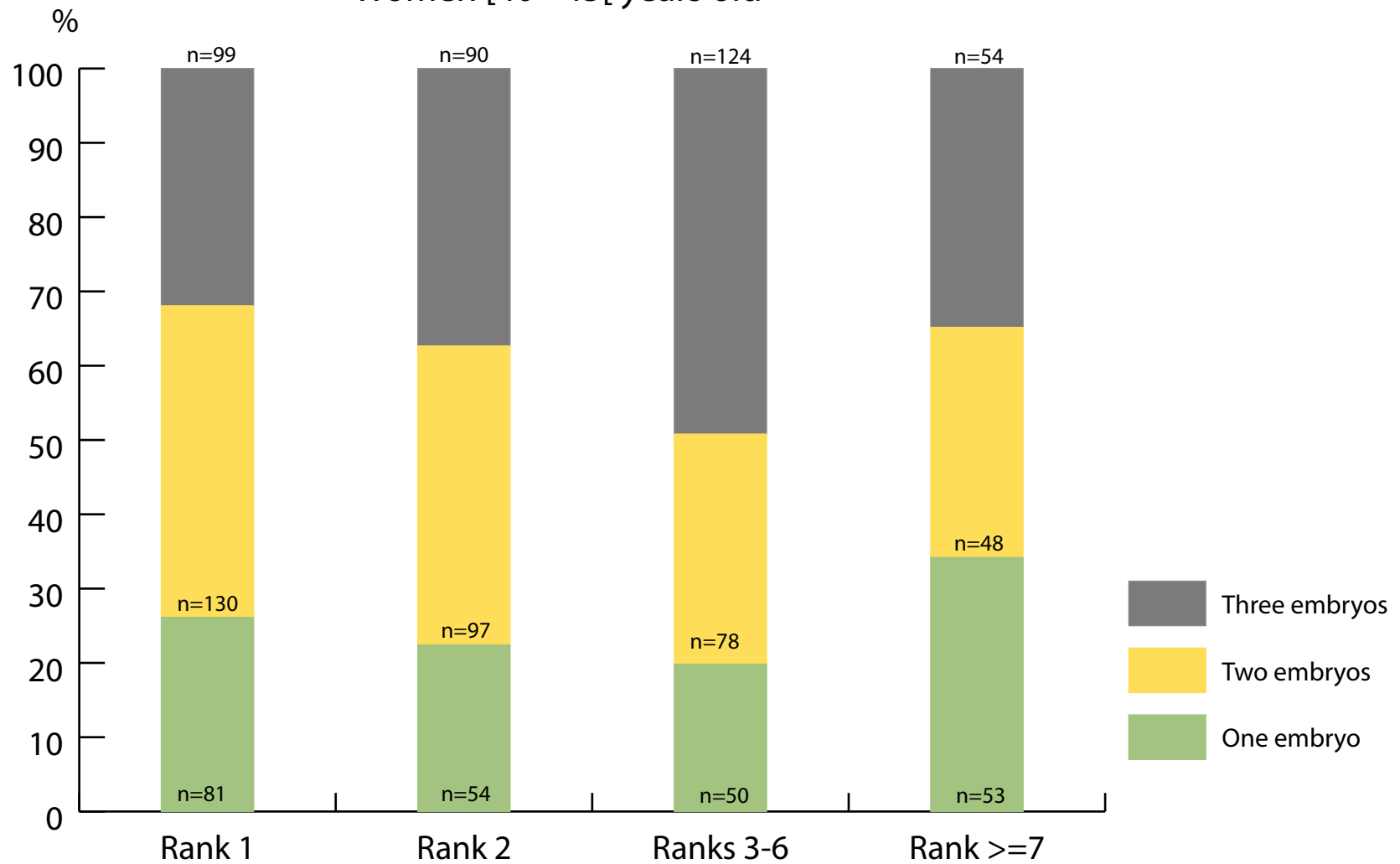
Embryo(s) Transferred Women <36 years old



Embryo(s) Transferred Women [36 - 40[years old



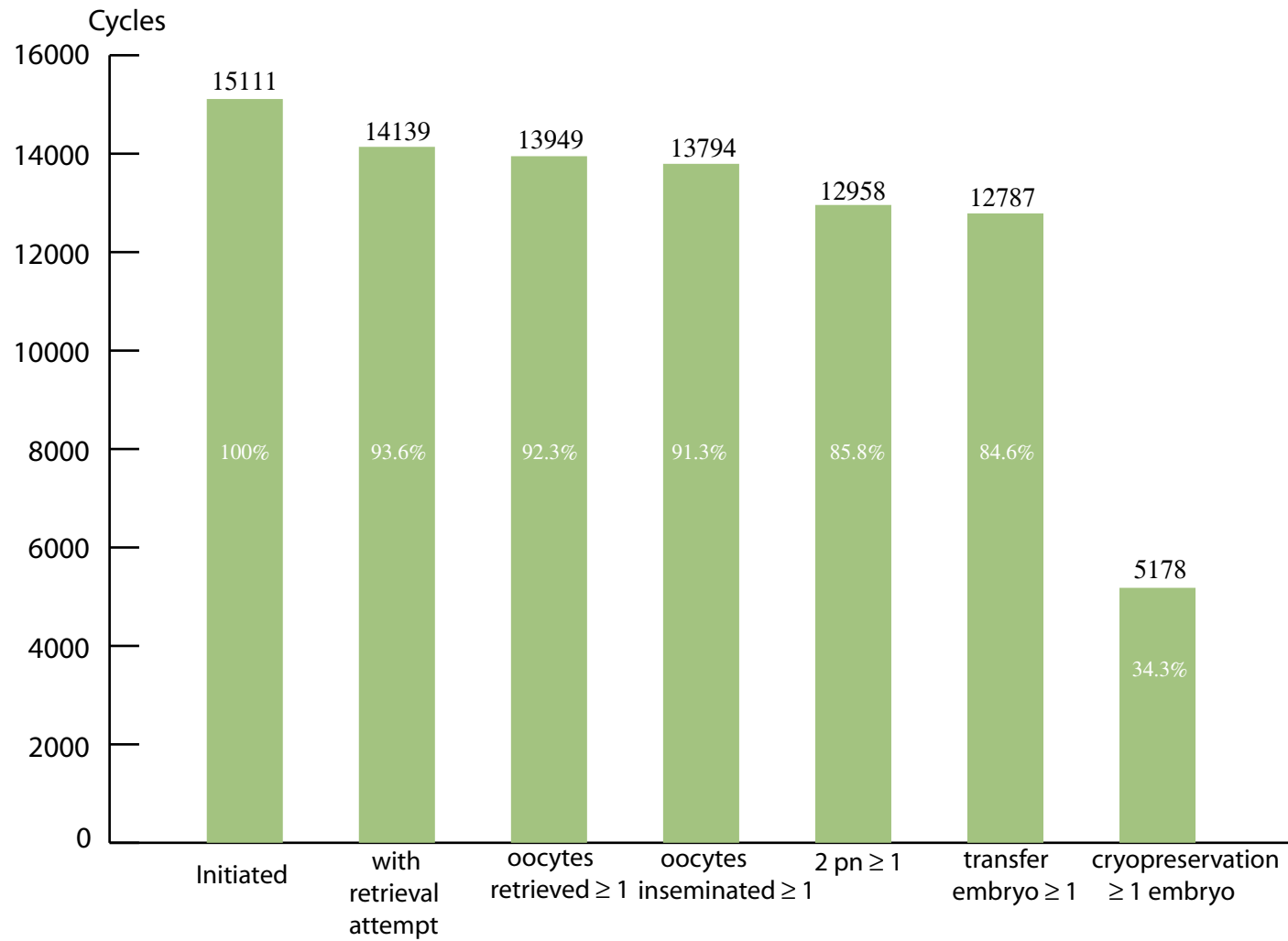
Embryo(s) Transferred Women [40 - 43[years old



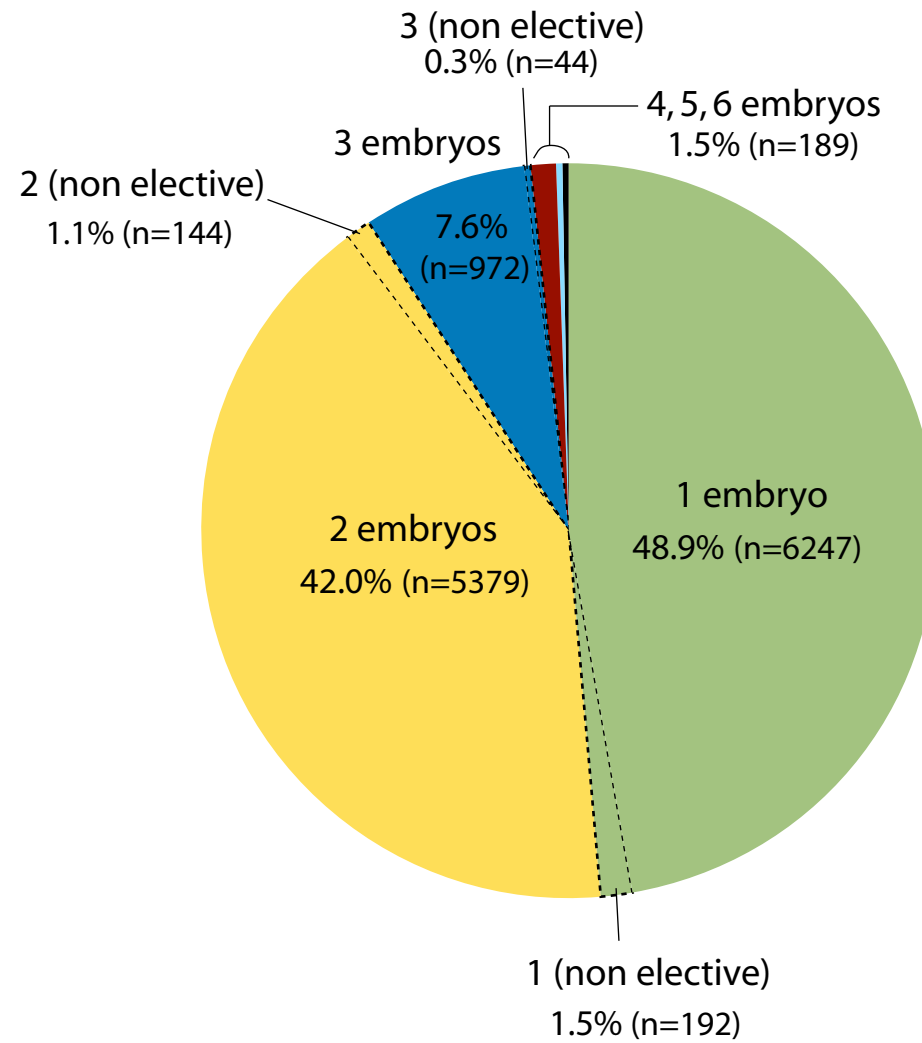
Laboratory Data

	Oocytes retrieved	Oocytes inseminated (IVF, ICSI or Mixed)	2 PN oocytes	Transferred embryos	Cryopreserved embryos
n	143841	126336	80457	20736	21230
%	100%	87.8%	55.9%	14.4%	14.8%
per cycle	10.2	9.2	5.7	1.5	1.5

Summary Pick-up Cycles

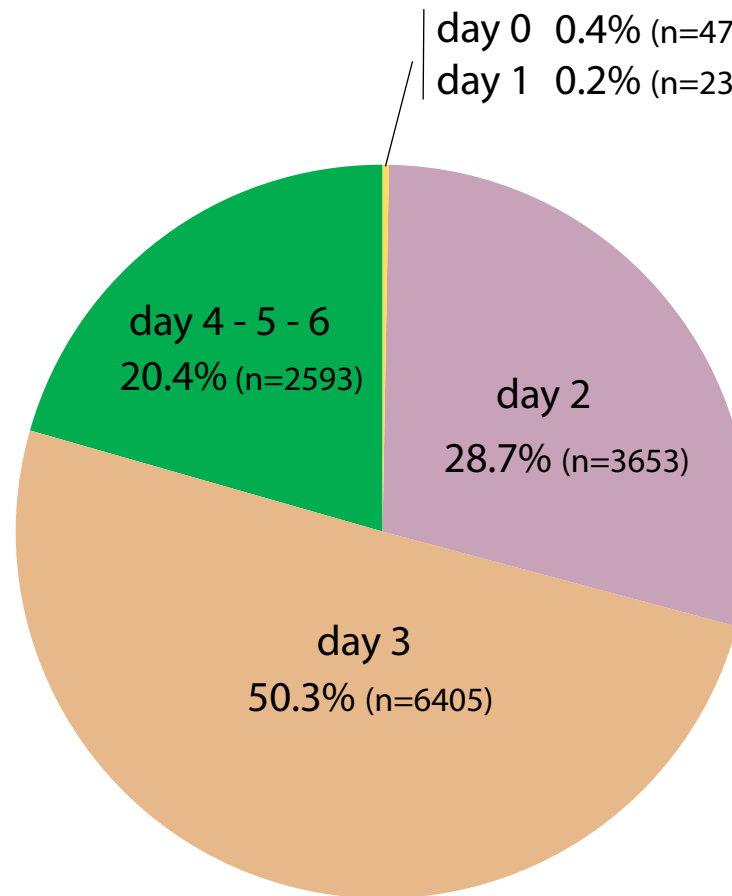


Distribution of Embryos Transfers



Causes of No Transfer (n=1297)		
	n	%
No oocyte	175	13.3
No sperm	81	6.2
No embryo available	830	63.1
OHSS risk	40	3.0
Other	190	14.4
<i>Total*</i>	<i>1316*</i>	<i>100.0</i>
<i>* total exceeds 1297 because some subjects have more than one reason for no transfer</i>		

Day of Embryos Transfers



Cycles with Cryopreservation		
Number of cycles	5178	
Number of embryos cryopreserved	21225	
Mean number of embryos cryopreserved per cryopreservation procedure	4.1	
Stages of the cryopreserved embryos	n	%
2 PN	723	3.4
Cleaved	16587	78.1
Blastocysts	3915	18.4
Percent freezing of non transferred embryos (%)	35.1	

Number of Clinical Pregnancies

	< 36 years old					[36 - 40 [years old					[40 - 43 [years old				
	Rank 1	Rank 2	Ranks 3 - 6	Rank ≥ 7	Total	Rank 1	Rank 2	Ranks 3 - 6	Rank ≥ 7	Total	Rank 1	Rank 2	Ranks 3 - 6	Rank ≥ 7	Total
hCG +	1380	796	382	222	2780	298	147	123	121	689	74	60	62	44	240
Percent of hCG + per embryo transfer	36.2%	24.1%	16.2%	23.0%	26.6%	19.2%	13.8%	12.0%	16.2%	15.7%	10.5%	10.0%	8.4%	11.3%	9.9%
One FHB*	946	450	209	130	1735	155	75	53	56	339	32	25	28	17	102
Two FHB	30	101	51	16	198	28	17	12	13	70	3	2	1	2	8
Three FHB	1	1	3	0	5	2	2	1	2	7	0	1	1	0	2
Total	977	552	263	146	1938	185	94	66	71	416	35	28	30	19	112

*abbrev. for Fœtal Heart Beat

Number of Deliveries

	< 36 years old					[36 - 40 [years old					[40 - 43 [years old				
	Rank 1	Rank 2	Ranks 3 - 6	Rank ≥ 7	Total	Rank 1	Rank 2	Ranks 3 - 6	Rank ≥ 7	Total	Rank 1	Rank 2	Ranks 3 - 6	Rank ≥ 7	Total
Singleton	696	334	124	95	1249	99	53	28	36	216	15	18	10	12	55
Twins	19	65	35	8	127	18	12	9	5	44	1	0	0	3	4
Triplets	0	0	1	0	1	1	1	0	0	2	0	0	1	0	1
Total	715	399	160	103	1377	118	66	37	41	262	16	18	11	15	60

Number of Clinical Pregnancies

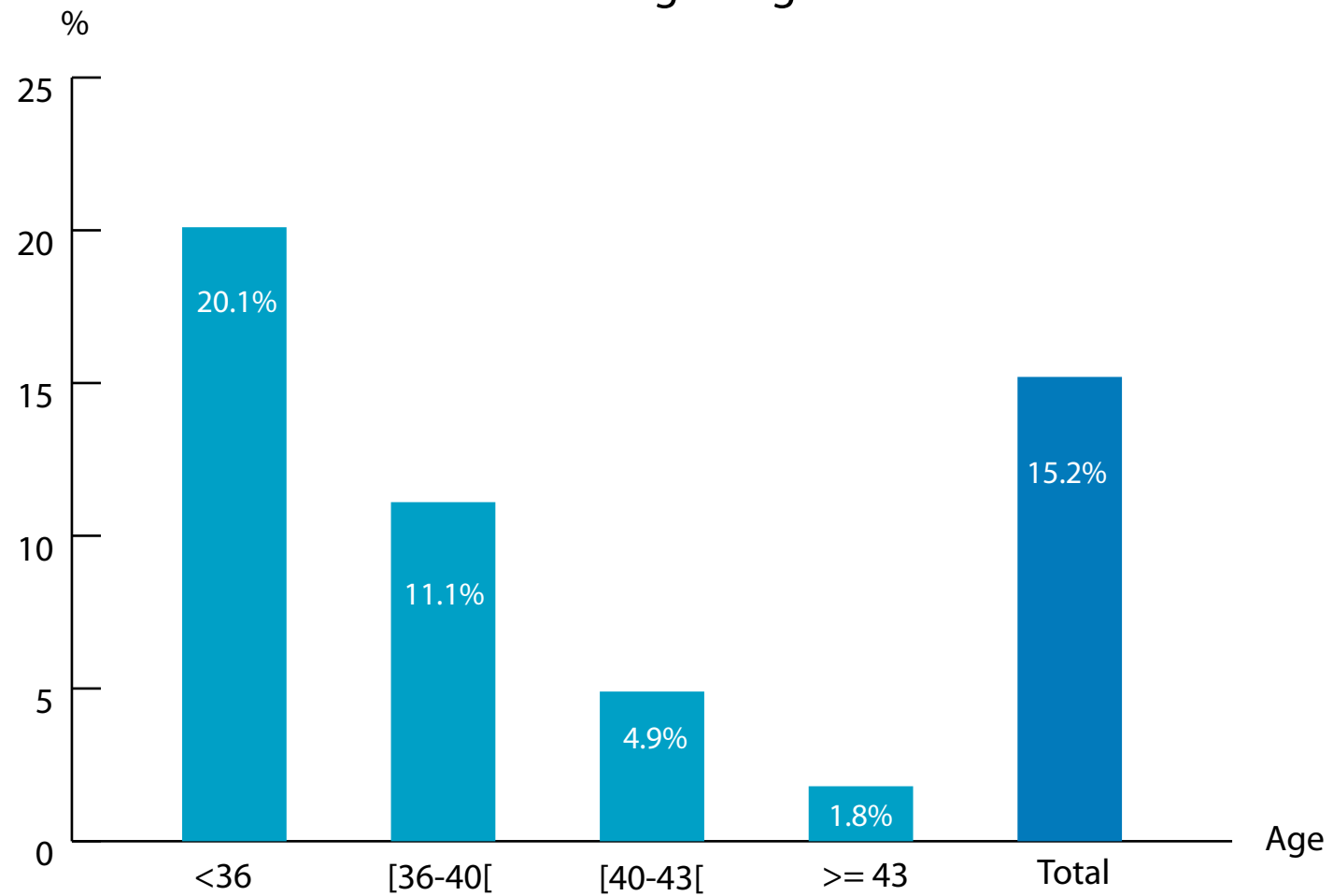
	≥ 43 years old					<i>All ranks & all ages</i>
	Rank 1	Rank 2	Ranks 3 - 6	Rank ≥ 7	Total	
hCG +	2	1	3	19	25	3734
Percent of hCG + per embryo transfer	9.1%	4.6%	13.0%	7.2%	7.6%	21.2%
One FHB*	0	1	0	7	8	2184
Two FHB	0	0	0	1	1	277
Three FHB	0	0	0	0	0	14
Total	0	1	0	8	9	2475

*abbrev. for Fœtal Heart Beat

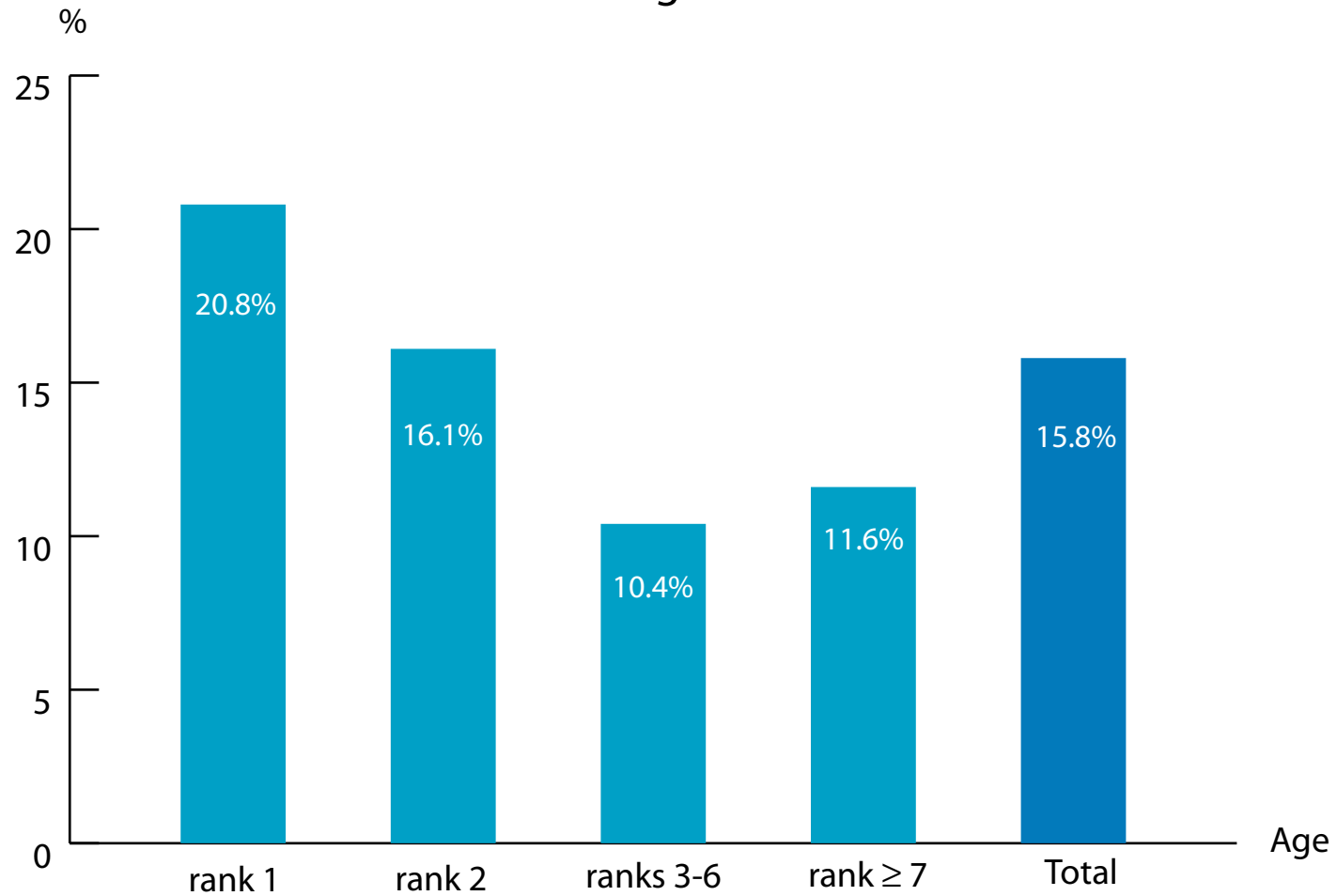
Number of Deliveries

	≥ 43 years old					<i>All ranks & all ages</i>
	Rank 1	Rank 2	Ranks 3 - 6	Rank ≥ 7	Total	
Singleton	0	0	0	3	3	1523
Twins	0	0	0	1	1	176
Triplets	0	0	0	0	0	4
Total	0	0	0	4	4	1703

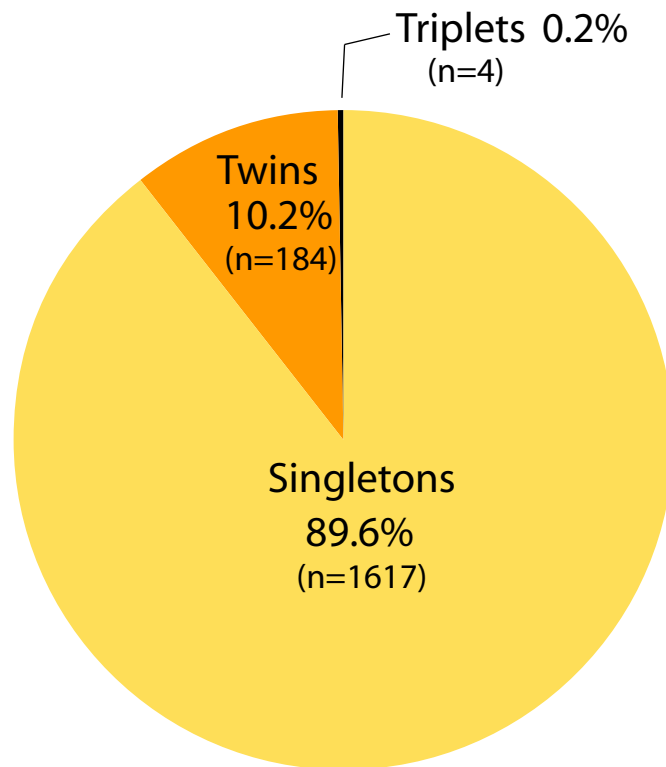
Clinical Implantation Rate per Transferred Embryo (in%) According to Age



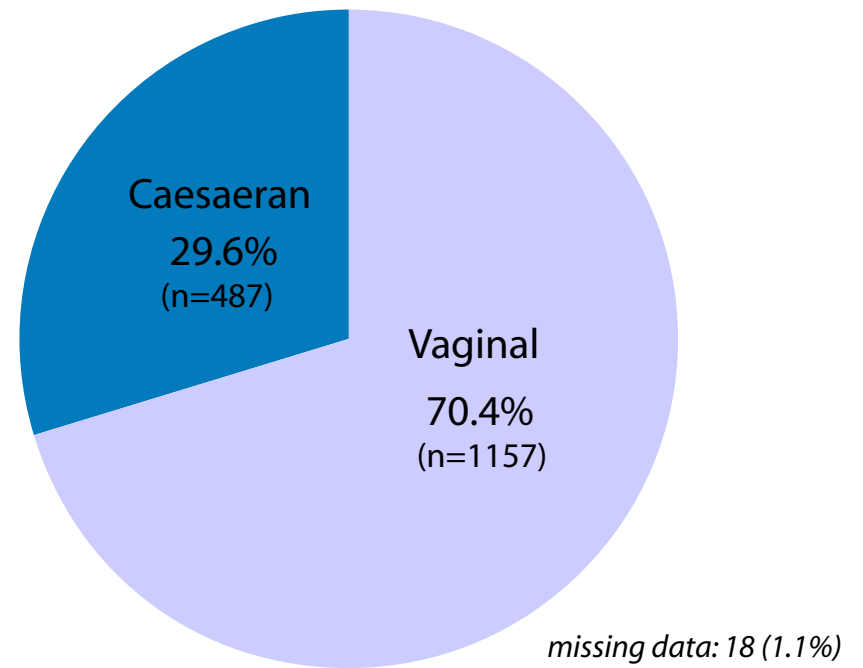
Clinical Implantation Rate per Transferred Embryo (in%) According to Rank



Deliveries



Type of Deliveries



Deliveries: Sex of Babies		
Male	1032	51.8%
Female	937	47.0%
Unknown	23	1.2%
<i>Total</i>	<i>1992</i>	<i>100%</i>

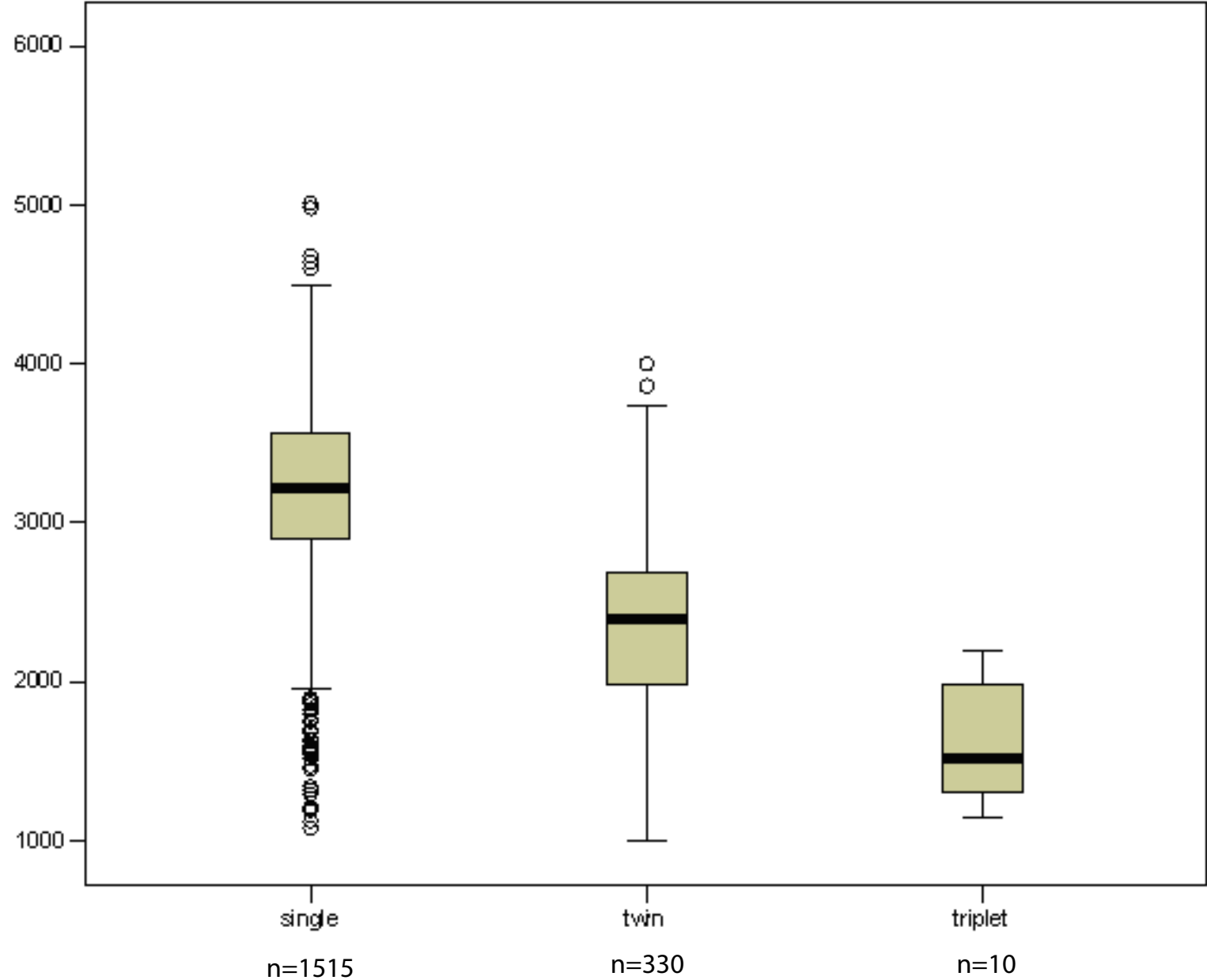
missing data: 5 (0.3%)

	n	Birthweight Mean in grams (±S.D.)	n	Gestational age at delivery Mean in weeks (±S.D.)
Singletons	1515	3211 (± 543)	1405	38.7 (± 2.0)
Twins	330	2353 (± 515)	304	35.4 (± 3.1)
Triplets	10	1629 (± 381)	12	30.8 (± 2.1)

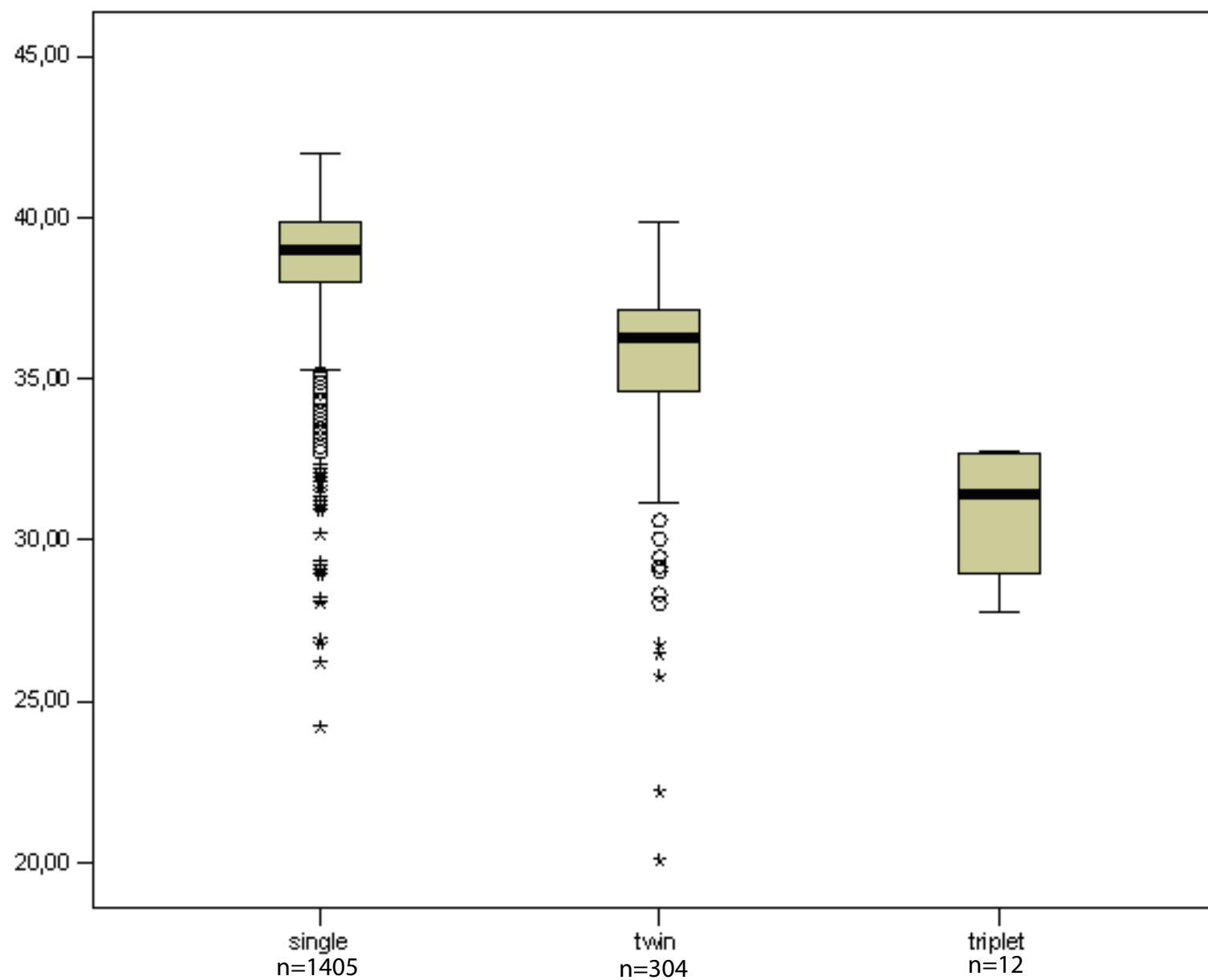
missing data: 142 (7.1%)

missing data: 276 (13.8%)

Birth Weight (in grams)



Gestational Age (in weeks)



Prevalence of Preterm birth

Duration of Gestation		
< 32 weeks	61	3.5%
[32-37[weeks	335	19.5%
≥ 37 weeks	1325	77.0%
<i>Total</i>	<i>1721</i>	<i>100%</i>

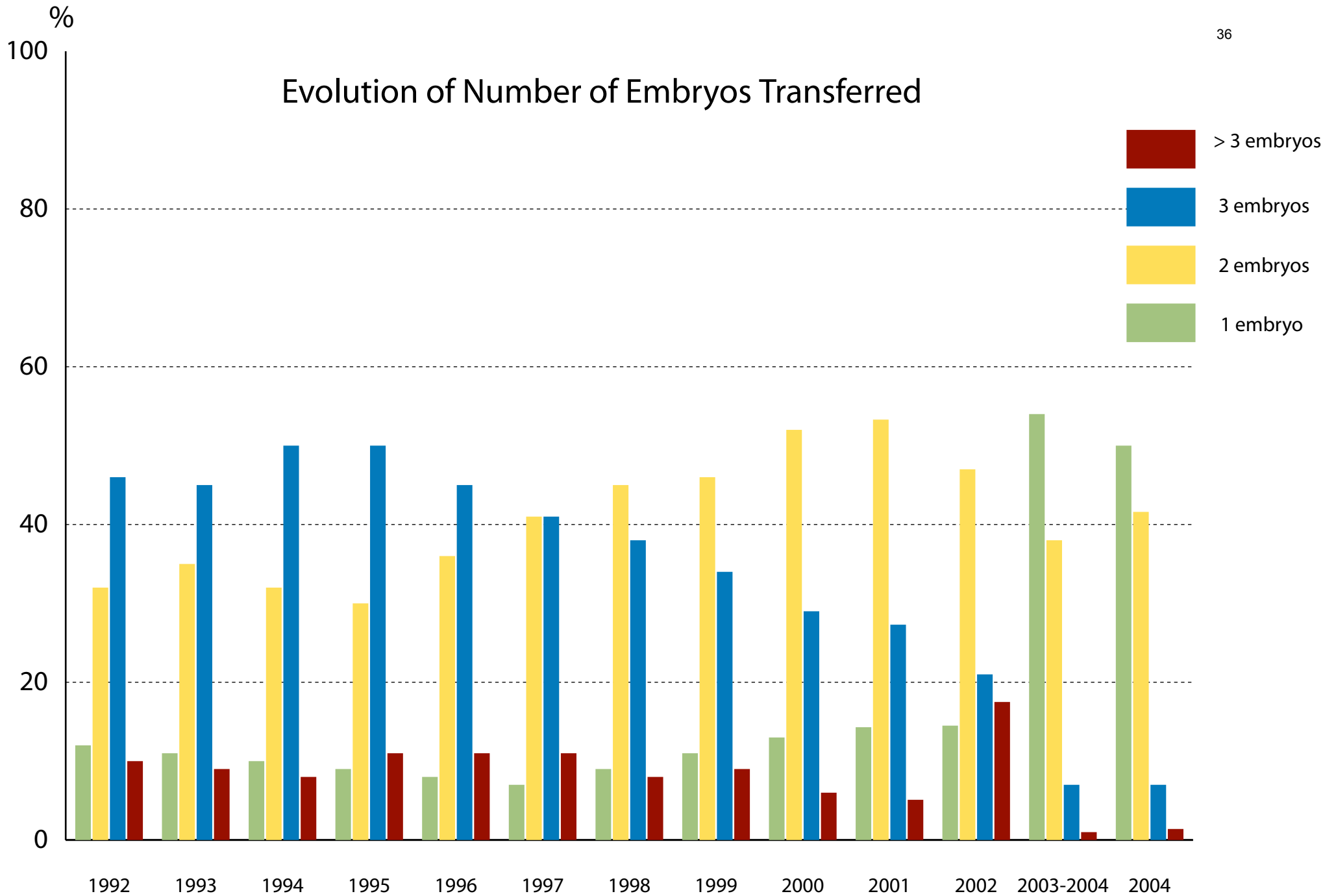
missing data: 276 (13.8%)

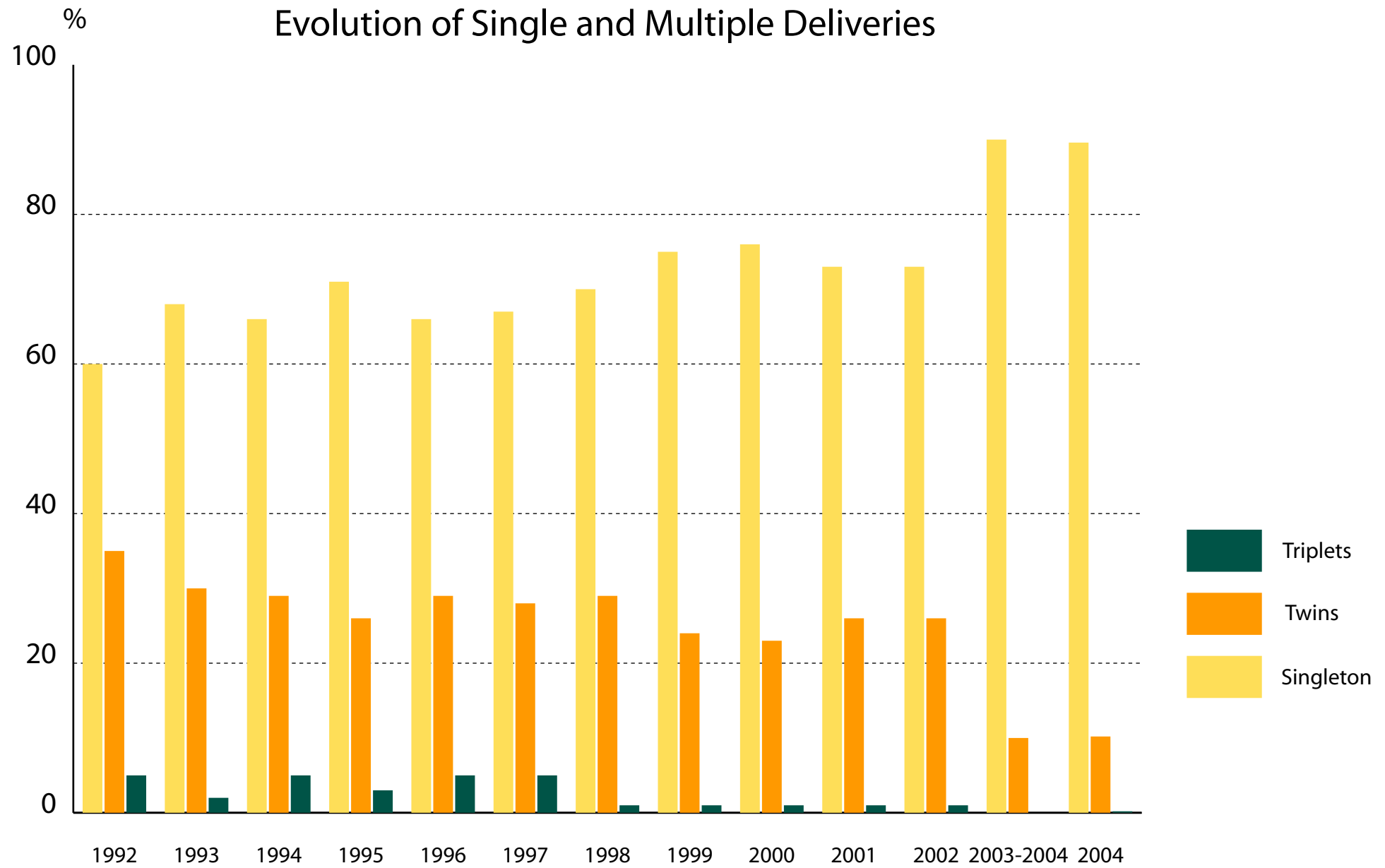
Prevalence of Low Birthweight

Birthweight		
< 1500 grams	36	1.9%
[1500-2500[grams	283	15.3%
≥ 2500 grams	1536	82.8%
<i>Total</i>	<i>1855</i>	<i>100%</i>

missing data: 142 (7.1%)

Evolution of Number of Embryos Transferred





CRYOCYCLES PART

Initiated cryocycles	n= 5053
Cancelled cryocycles	n= 251 (5.0%)
Thawing cryocycles	n= 4802
Thawing cycles with transfer	n= 3858 (80.3%)

Number of Embryos Replaced		
One embryo	1378	36.1%
Two embryos	2258	59.1%
Three embryos	175	4.6%
Four embryos & more	11	0.3%
Total number of embryos replaced	6467	

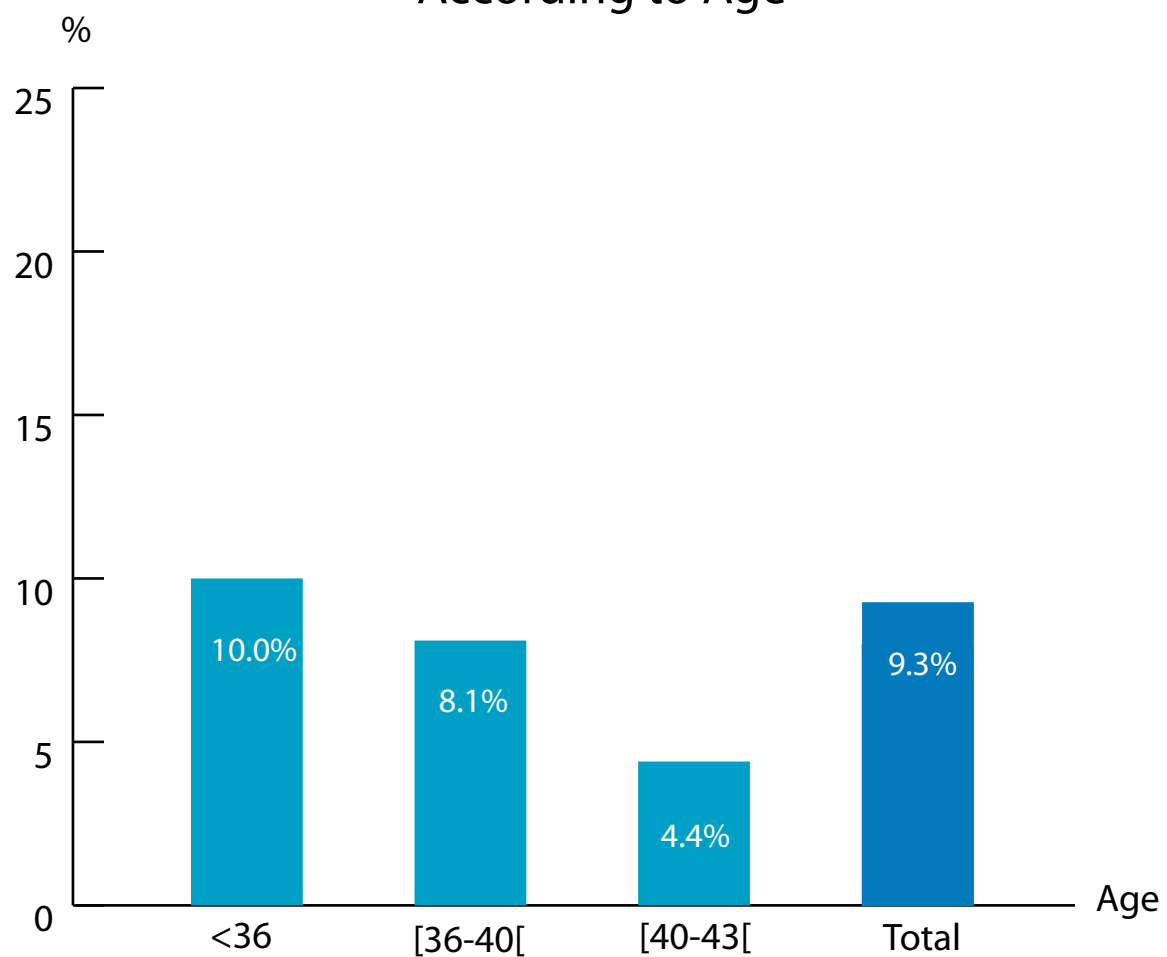
Pituitary Inhibition		
Yes	152	4.1%
No	3532	95.9%

missing data: 1118 (23.3%)

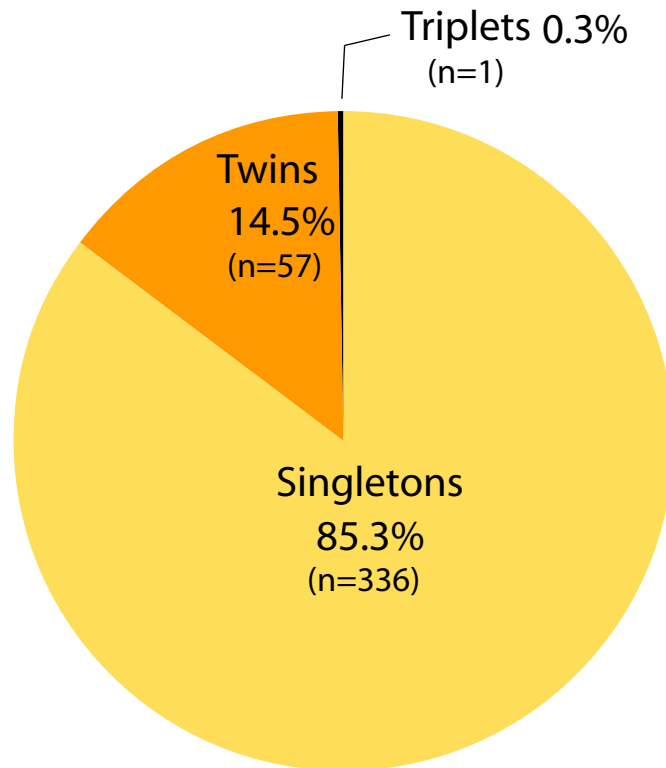
Stimulation		
Clomifene	744	16.5%
Gonadotrophins	263	5.8%
Substitution	1438	32.0%
None	2054	45.7%

missing data: 303 (6.3%)

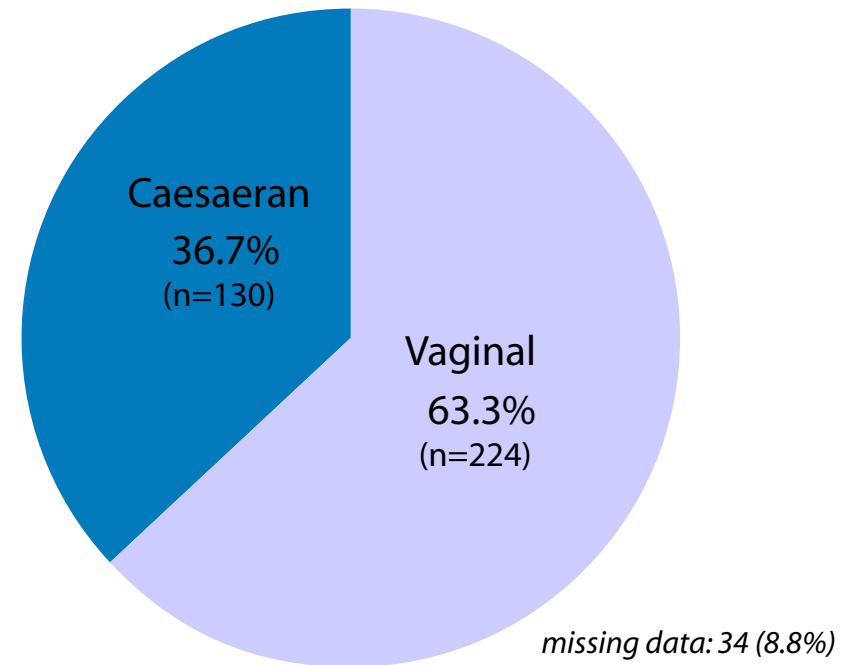
Clinical Implantation Rate per Transferred Embryo (in%) According to Age



Deliveries



Type of Deliveries



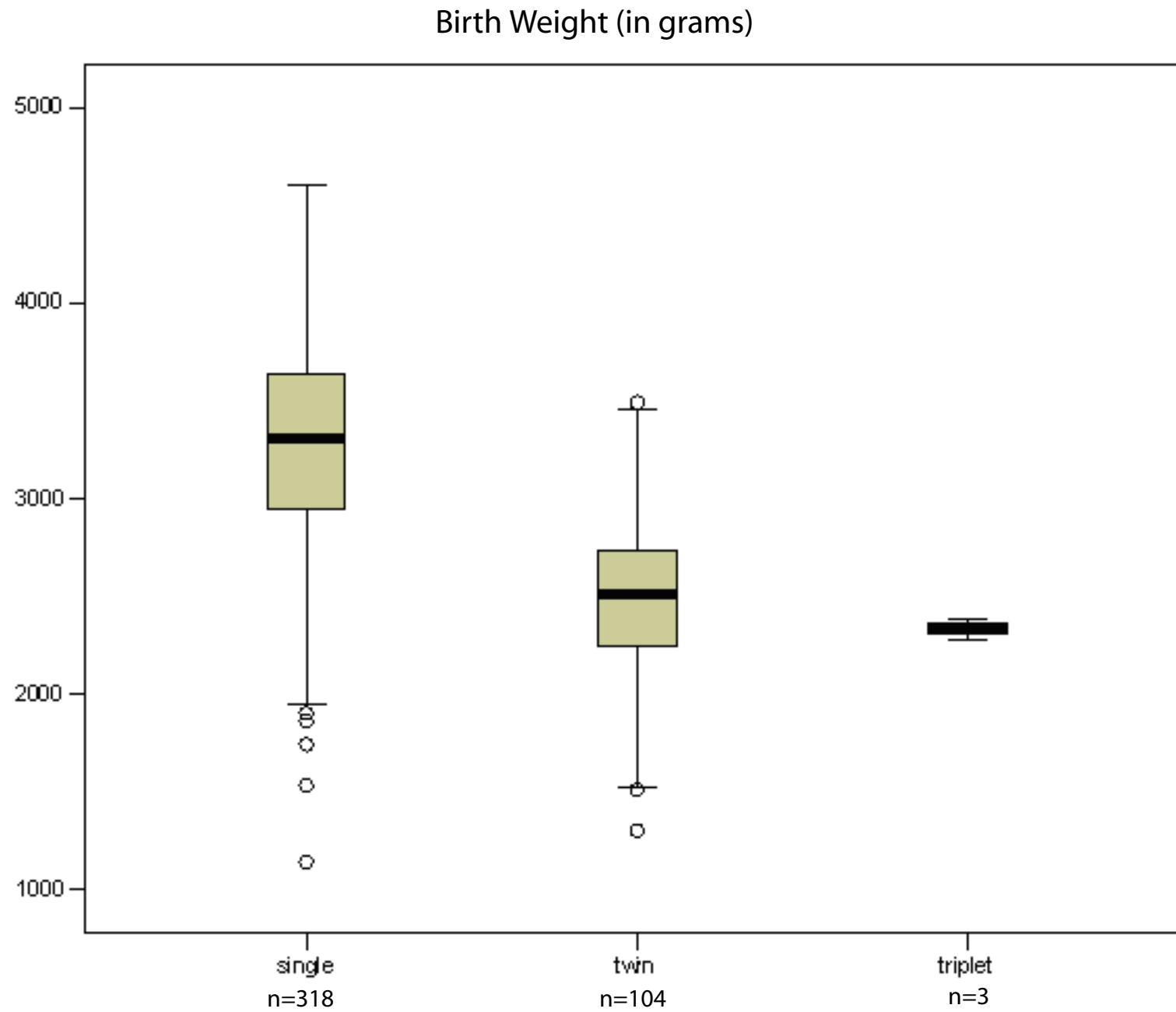
Deliveries: Sex of Babies		
Male	226	50.1%
Female	220	48.8%
Unknown	5	1.1%
<i>Total</i>	<i>451</i>	<i>100%</i>

missing data: 2 (0.4%)

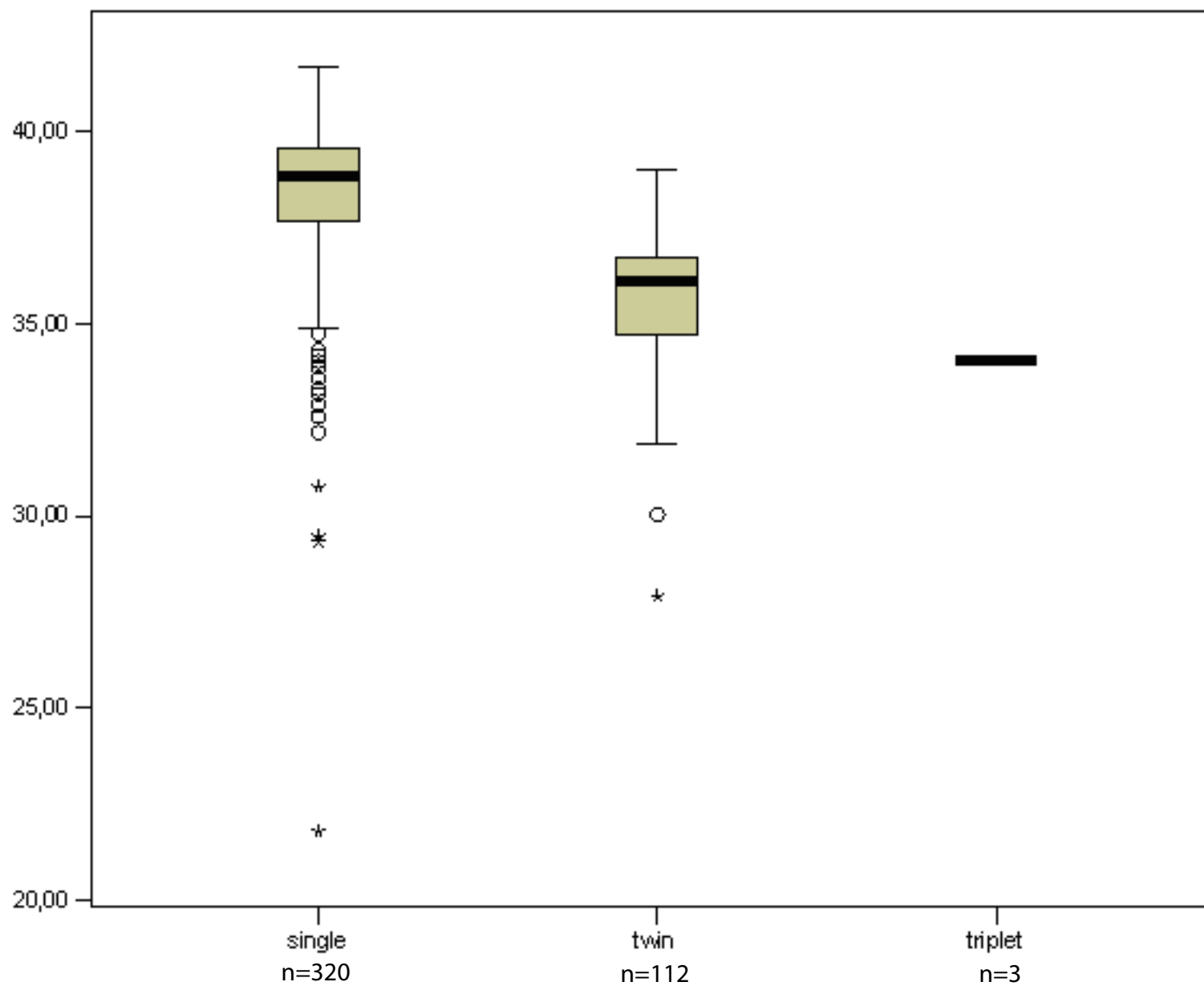
	n	Birthweight Mean in grams (\pmS.D.)	n	Gestational age at delivery Mean in weeks (\pmS.D.)
Singletons	318	3269 (\pm 539)	320	38.4 (\pm 2.1)
Twins	104	2473 (\pm 405)	112	35.7 (\pm 2.0)
Triplets	3	2335 (\pm 53)	3	34.03

missing data: 28 (6.2%)

missing data: 18 (4.0%)



Gestational Age (in weeks)



Prevalence of Preterm birth

Duration of Gestation		
< 32 weeks	10	2.3%
[32-37[weeks	121	27.8%
≥ 37 weeks	304	69.9%
<i>Total</i>	<i>435</i>	<i>100%</i>

missing data: 18 (4.0%)

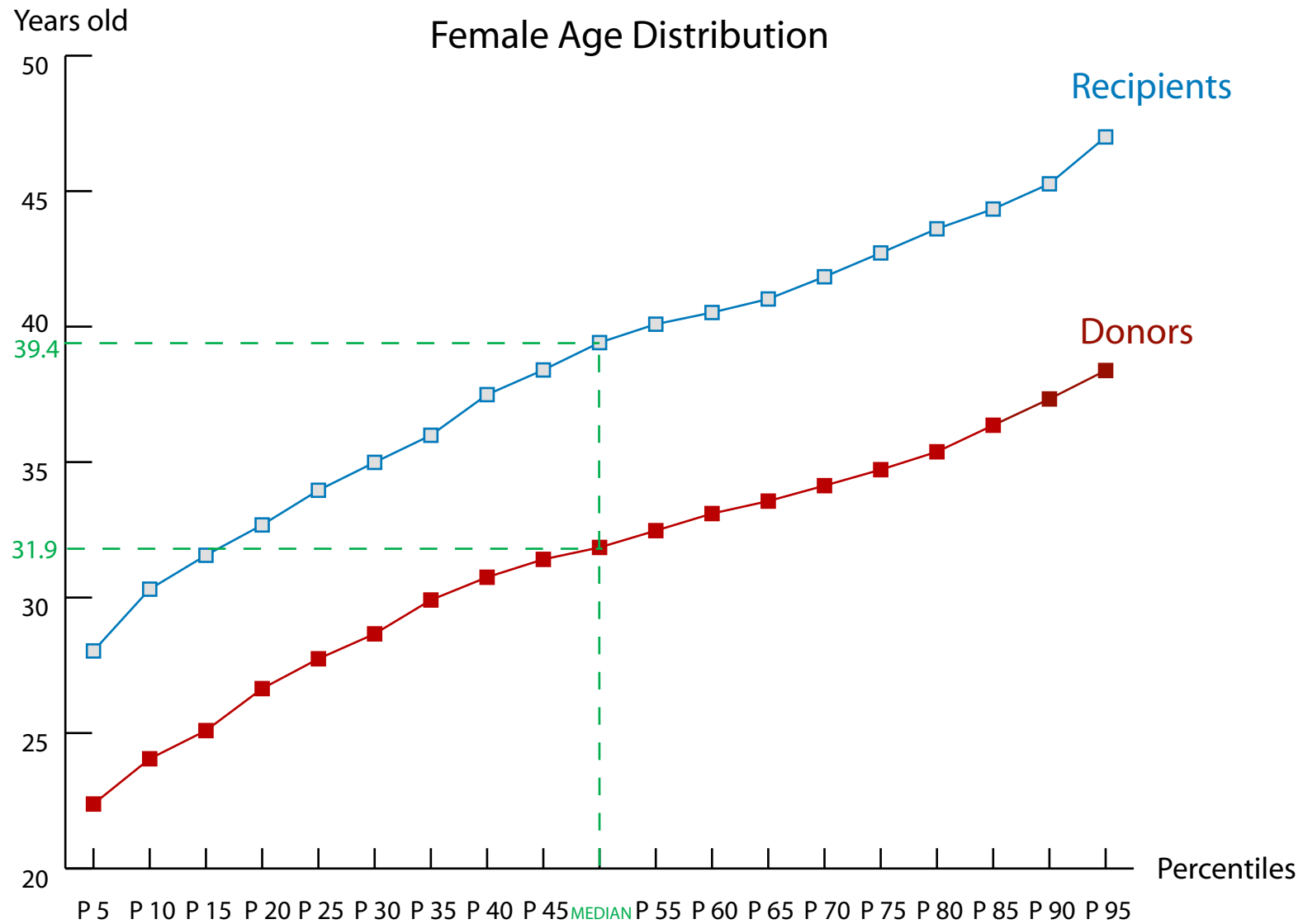
Prevalence of Low Birthweight

Birthweight		
< 1500 grams	2	0.5%
[1500-2500[grams	78	18.4%
≥ 2500 grams	345	81.2%
<i>Total</i>	<i>425</i>	<i>100%</i>

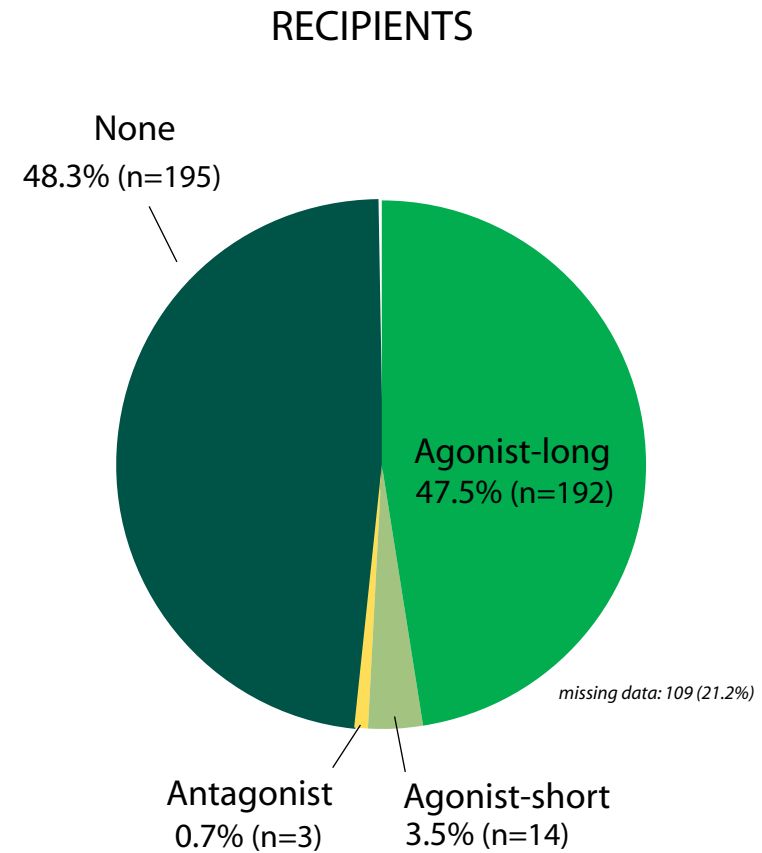
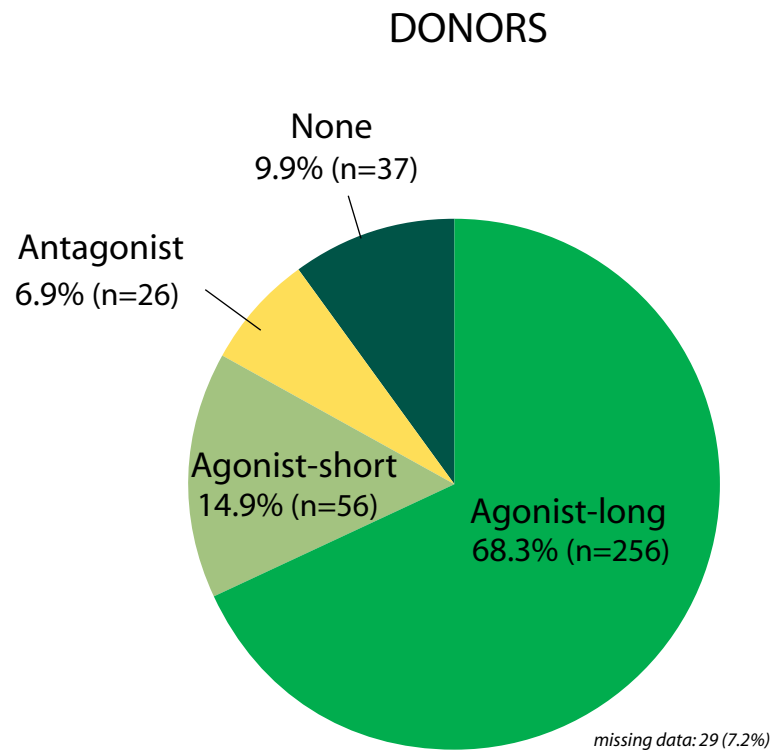
missing data: 28 (6.2%)

RECIPIENTS & DONORS PART

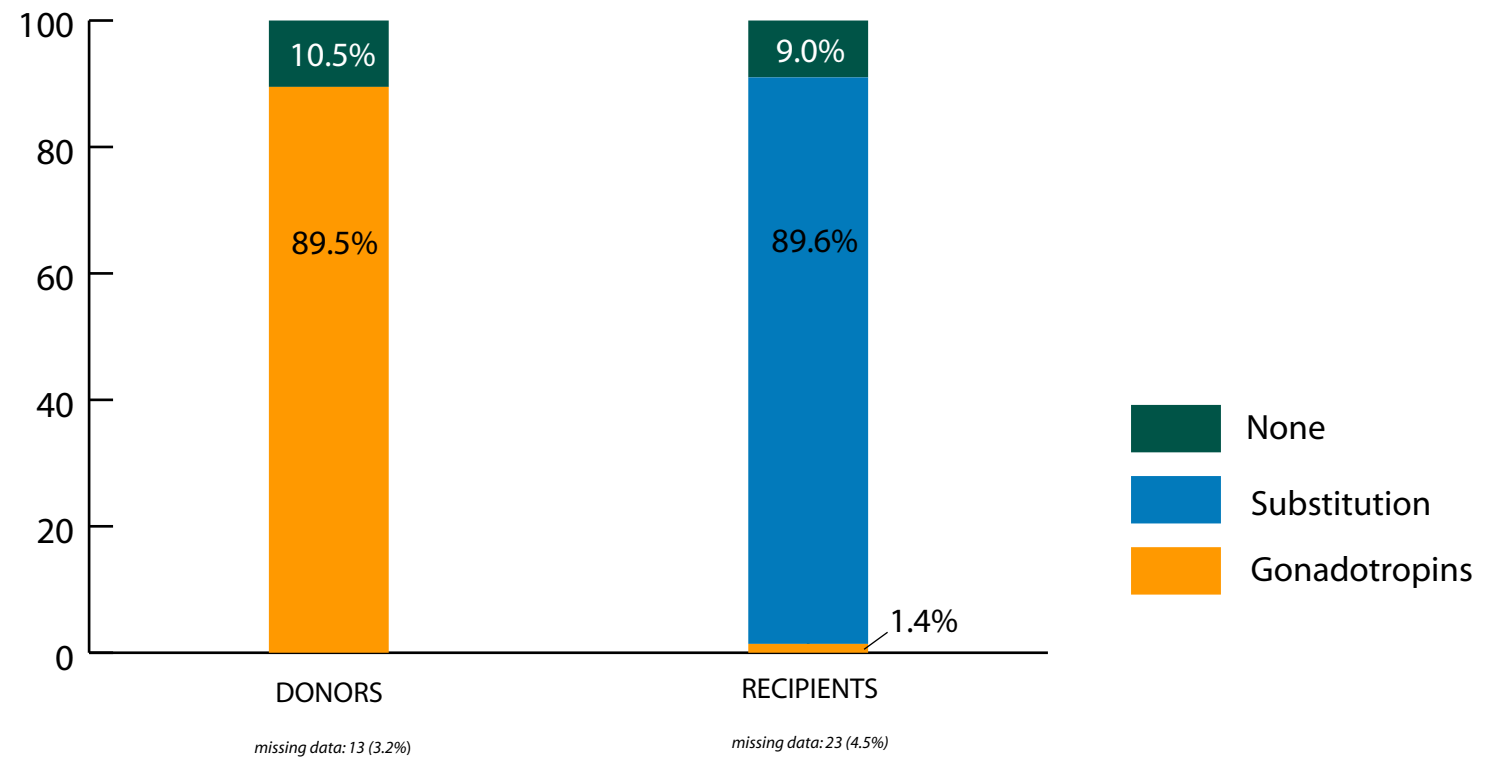
DONORS	n=	RECIPIENTS	n=
Initiated Cycles	444	Initiated Cycles	587
Cancelled Cycles	40	Cancelled Cycles	74
Retrieval Cycles	404	On going Cycles	513
Total Amount of Oocytes retrieved	4036		

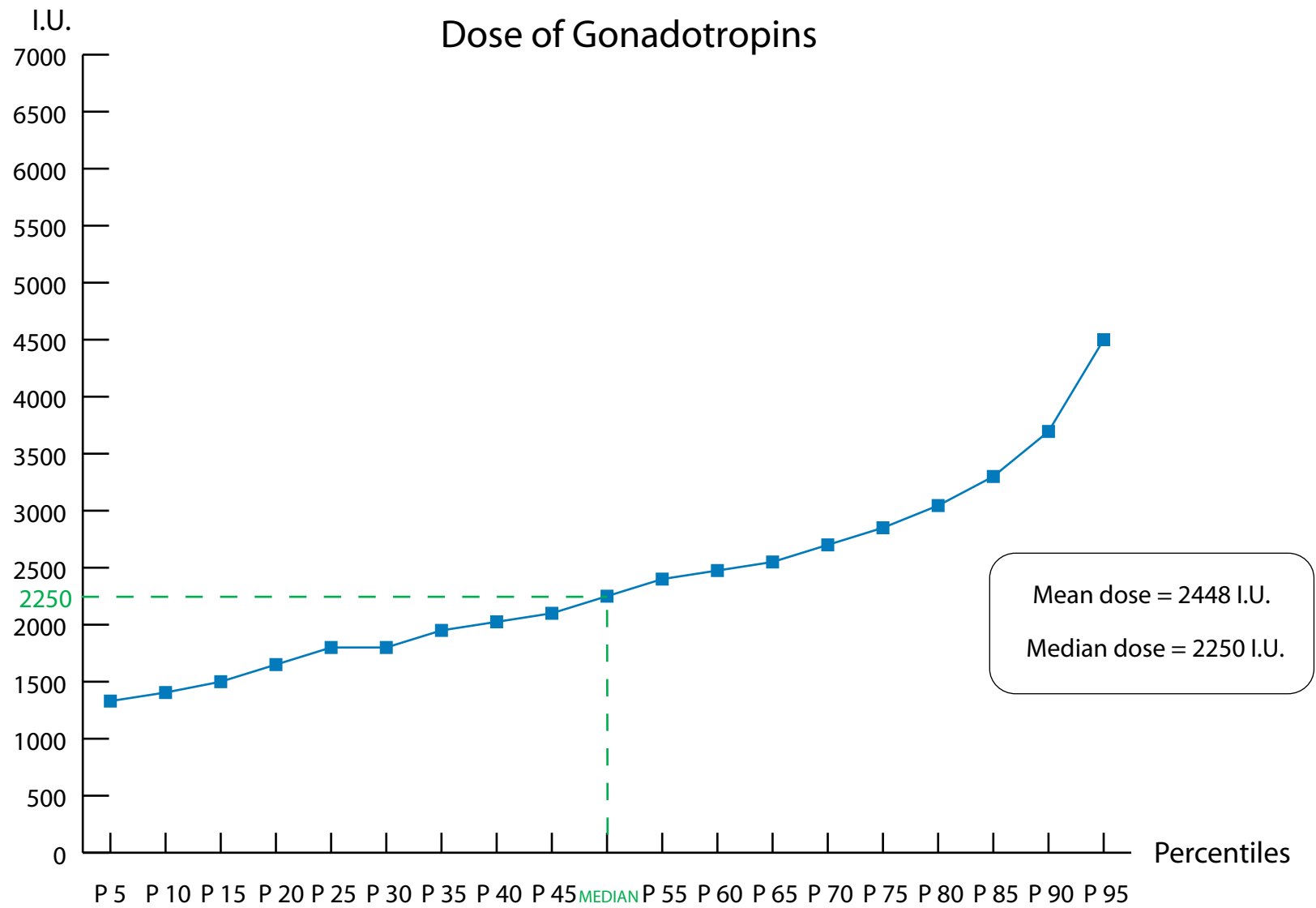


PITUITARY INHIBITION



Stimulation Protocol





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BELGIUM 2004

*THIS REPORT WILL BE AVAILABLE AT
WWW.BELRAP.BE*