

## Supplementary tables

**Supplementary table 1** – Unweighted baseline characteristics of the patients included in the analysis

	Overall	Follitropin alpha/beta	Follitropin delta	p	SMD*
	483	362	121		
Fertility Center, n(%)				0.003	0.317
<b>1</b>	146 (30.2)	96 (26.5)	50 (41.3)		
<b>2</b>	337 (69.8)	266 (73.5)	71 (58.7)		
Age, years (mean (SD))	34.35 (4.35)	34.61 (4.38)	33.57 (4.17)	0.002	0.243
BMI, kg/m <sup>2</sup> (mean (SD))	22.34 (3.37)	22.23 (3.23)	22.66 (3.75)	0.221	0.124
AMH, ng/ml (mean (SD))	5.90 (4.47)	6.08 (4.91)	5.37 (2.68)	0.131	0.179
PCOS, n(%)	304 (62.9)	229 (63.3)	75 (62.0)	0.886	0.026
Severe male factor, n(%)	196 (40.6)	150 (41.4)	46 (38.0)	0.578	0.070

\* Cohen's d values (effect sizes) represent standardised mean or proportion differences. Absolute values of  $d > 0.10$  were considered clinically meaningful.

SD: standard deviation, BMI= body mass index; AMH = antiMullerian hormone; PCOS= polycystic ovary syndrome, SMD= standardised mean difference

**Supplementary table 2** - Clinical outcome of cycles with follitropin delta vs alpha/beta: univariable and multivariable analysis and inverse probability weighting (IPW) adjusted analysis

	Univariable analysis N=483		Multivariable analysis* N=483		IPW-adjusted analysis N=483	
	OR (95%CI)	p-value	OR (95%CI)	p-value	OR (95%CI)	p-value
Target response (8-14 oocytes) †	1.02 (0.67-1.56)	0.929	1.02 (0.66-1.58)	0.912	0.99 (0.65-1.53)	0.975
Less than 8 oocytes †	1.01 (0.65-1.55)	0.971	1.14 (0.72-1.80)	0.575	1.10 (0.71-1.69)	0.669
More than 14 oocytes †	0.89 (0.58-1.37)	0.610	0.76 (0.48-1.20)	0.240	0.83 (0.54-1.28)	0.399
Freeze-all cycles ‡	1.02 (0.67-1.54)	0.935	1.21 (0.78-1.86)	0.396	1.18 (0.78-1.79)	0.434
	RR (95%CI)	p-value	RR (95%CI)	p-value	RR (95%CI)	p-value
MII oocytes ††	1.00 (0.95-1.08)	0.906	0.94 (0.87-1.01)	0.081	0.95 (0.88-1.02)	0.168
	Beta coefficient (95%CI)	p-value	Beta coefficient (95%CI)	p-value	Beta coefficient (95%CI)	p-value
COS duration §	0.27 (from -	0.244	0.25 (from -	0.279	0.21 (from -	0.356

	0.18 to 0.71)		0.20 to 0.69)		0.24 to 0.66)	
<b>Total dose</b> <sup>§,++</sup>	-485.37 (from - 609.89 to - 360.86)	<.0001	-467.83 (from - 612.01 to - 323.65)	<.0001	-497.16 (from - 621.57 to - 372.75)	<.0001

\*center, age, BMI, amh, PCOS and male infertility as covariates

‡ Patients with CCOC were compared between arms using a regression logistic model

#Estimates and p-values were calculated with the use of a poisson regression model

§Estimates and p-values were calculated with the use of a regression linear model

++ N=217

MII= metaphase II; COS= controlled ovarian stimulation; OR = odds ration; RR= rate ratio; CI= confidence interval