

Additional file 1.

Title: Detailed pre- and perinatal data of the patients

Legend: Important data are marked in bold, as diagnostic prenatal test with indication, assisted reproduction technique, paternal age over 40 years, maternal age over 35 years, gestational age before the 38th and after the 42nd gestational week, birth weight <2500 g or 4000 < g, birth length < 47 cm or 53 < cm, Apgar score <7).

PATIENTS	PRENATAL TEST	TYPE OF	PATERNAL	MATERNAL	GESTATIONAL AGE (weeks)	MODE OF DELIVERY	BIRTH		APGAR SCORE	PERINATAL PROBLEMS/ SIGNS/ SYMPTOMS
			AGE AT (years)				WEIGHT (g)	LENGTH (cm)		
		CONCEPTION								
TURNER SYNDROME & VARIANTS										
CLASSIC, NON-MOSAIC										
P1	-	n	31	29	40	pvn	2850	51	9/10	-
P2	-	n	35	34	36 (sp)	cs (fetal distress)	2400	49	9/10	transient circulatory failure
P3	-	n	26	25	40	pvn	2750	53	9/10	-
P4	-	n	24	22	40	pvn	2500	50	9/10	edema of the dorsum of feet
P5	-	n	19	22	37 (sp)	pvn	2810	50	9/10	-
P6	-	n	30	30	39	cs (fetal malpresentation)	3310	51	8/10	-
P7	-	n	37	32	40	cs (cephalopelvic disproportion)	3250	49	9/10	-
P8	-	n	35	25	41	cs (fetal distress)	3100	51	9/10	edema of the dorsum of hands & feet
P9	-	n	27	20	40	pvn	3100	55	4/7	transient respiratory failure (pneumonia)
P10	-	n	29	29	40	pvn	3050	50	9/10	-
P11	-	n	35	27	38	pvn	2320	47	9/10	-
P12	-	n	36	32	38	pvn	2550	47	9/10	-

P13	-	n	48	20	38	cs (cephalopelvic disproportion)	2340	44	7/10	edema of the dorsum of feet
P14	-	n	31	28	38	pvn	3050	52	9/10	-
P15	-	n	32	29	37 (sp)	pvn	3200	51	9/10	-
P16	-	n	19	16	38	cs (prolonged first stage)	3500	49	9/10	edema of the dorsum of feet
P17	-	n	29	26	40	pvn	3600	50	9/10	-
P18	-	n	28	22	40	pvn	3500	55	9/10	-
P19	-	n	35	33	39	pvn	2950	51	9/10	-
<i>CLASSIC, MOSAIC WITH 46,XX</i>										
P20	-	n	35	32	38	pvn	3520	55	10/10	-
P21	-	n	26	19	40	pvn	2200	45	9/10	-
P22	-	n	20	21	40	pvn	3300	49	9/10	-
P23	-	n	32	32	41	cs (fetal distress)	2500	48	8/10	-
P24	-	n	28	25	39	pvn	3470	55	9/10	-
P25	-	n	33	30	39	pvn	3500	55	9/10	-
P26	-	n	35	28	38	pvn	2700	50	9/10	-
P27	-	n	24	20	40	pvn	2700	47	9/10	-
<i>CLASSIC, MOSAIC WITH TRIPLE/POLY X SYNDROME</i>										
P28	-	n	26	25	39	pvn	3100	54	9/10	-
P29	-	n	31	26	40	pvn	2800	53	9/10	-
P30	-	n	28	29	38	pvn	3500	52	9/10	-
P31	-	n	27	27	38	pvn	3250	52	9/10	-
P32	-	n	38	33	38	pvn	3500	55	10/10	-
P33	-	n	24	21	38	pvn	3140	52	9/10	-
P34	-	n	29	33	38	pvn	3300	52	9/10	-
P35	-	n	31	31	30 (medically induced: stopped fetal growing)	cs (twin pregnancy)	1300	38	9/10	-
<i>CLASSIC, MOSAIC WITH RING X CHROMOSOME</i>										
P36	-	n	30	28	38	pvn	3200	50	9/10	-
<i>CLASSIC, MOSAIC WITH ISOCHROMOSOME Xq</i>										
P37	-	n	52	47	38	pvn	3240	48	10/10	-
P38	-	n	33	25	40	pvn	3450	53	9/10	-

P39	-	n	31	29	26 (sp)	cs (fetal distress)	1870	37	9/10	-
<i>PARTIAL Xp DELETION, NON-MOSAIC</i>										
P40	-	n	30	29	37 (sp)	cs (fetal distress)	2000	47	8/9	IUGR
<i>PARTIAL Xp DELETION, MOSAIC</i>										
P41	-	n	28	25	38	pvn	3000	53	9/10	-
<i>PARTIAL Xq DELETION, NON-MOSAIC</i>										
P42	-	n	32	31	38	pvn	2800	51	9/10	-
P43	ac (polyhydramnios, IUGR)	n	32	30	33 (sp)	cs (severe IUGR)	1450	41	4/7/9	IUGR, transient respiratory failure, sepsis
P44	-	n	37	28	42	pvn	2480	47	9/10	-
<i>PARTIAL Xq DELETION, MOSAIC</i>										
P45	-	n	31	21	40	pvn	3100	51	9/10	-
<i>RING X, MOSAIC</i>										
P46	ac (advanced maternal age)	n	37	37	40	cs (previous cesarean section)	2700	50	9/10	-
<i>ISOCHROMOSOME Xq, NON-MOSAIC</i>										
P47	-	n	31	32	38	pvn	3100	51	9/10	-
P48	-	n	34	32	38	pvn	2250	48	9/10	-
P49	-	n	35	30	40	pvn	2520	47	10/10	-
P50	ac (advanced maternal age)	ivf	60	40	31 (sp)	cs (previous cesarean section)	1100	38	8/9	cerebral hemorrhage
P51	-	n	25	22	38	cs (maternal cardiac disease)	2670	47	9/10	-
<i>ISOCHROMOSOME Xq, MOSAIC</i>										
P52	-	n	25	22	38	pvn	2750	50	10/10	-
<i>KLINEFELTER SYNDROME & VARIANTS</i>										
<i>CLASSIC, NON-MOSAIC</i>										
P53	-	n	40	35	38	pvn	3250	52	9/10	-
P54	-	n	33	20	41	pvn	3600	51	9/10	-
P55	-	n	21	21	40	pvn	4500	57	9/10	-

P56	ac (advanced maternal age)	n	42	38	39	pvn	3760	49	9/10	-
P57	-	n	27	25	28 (sp)	pvn	1850	32	6/10	transient respiratory failure
P58	-	n	30	23	37 (sp)	pvn	3750	56	9/10	-
P59	ac (advanced maternal age)	n	40	43	36 (sp)	cs (fetal distress)	2550	50	7/9	-
P60	ac (advanced maternal age)	n	41	43	36 (sp)	cs (fetal distress)	2100	46	9/10	-
P61	-	n	36	30	36 (sp)	pvn	2650	47	8/9	-
P62	-	n	29	22	40	pvn	2050	48	9/10	-
P63	-	n	52	30	40	pvn	3700	51	9/10	-
P64	-	n	31	25	38	pvn	3480	49	9/10	-
P65	-	n	43	34	37 (sp)	pvn	3870	53	9/10	-
P66	-	n	36	36	38	pvn	3780	52	9/10	-
P67	-	ivf	42	39	33 (sp)	cs (fetal distress)	1600	43	7/9	-
P68	-	n	41	32	28 (medically induced: stopped fetal growing)	cs (twin pregnancy)	1970	46	7/8	transient respiratory failure
P69	ac (advanced maternal age)	n	43	43	36 (medically induced: severe urethral stricture of fetus)	cs (severe urethral stricture of fetus)	2600	44	9/10	-
P70	ac (advanced maternal age)	n	37	45	40	pvn	3700	52	10/10	-

P71	ac (advanced maternal age)	n	42	39	38	cs (maternal pubic varicose vein)	2900	54	10/10	-
P72	cvs (advanced maternal age)	n	40	38	37 (sp)	pvn	2800	50	9/10	-
P73	ac (advanced maternal age)	n	43	43	39	pvn	2520	51	9/10	-
P74	ac (advanced maternal age)	ivf	35	43	39	cs (prolonged first stage)	3500	56	9/10	-
P75	ac (high risk with triple test)	n	34	34	40	pvn	3950	57	10/10	-
CLASSIC, MOSAIC WITH 46,XY										
P76	-	n	25	27	37 (sp)	pvn	3230	48	9/10	-
P77	-	n	28	23	40	pvn	3720	53	9/10	-
>1 EXTRA X CHROMOSOME, NON-MOSAIC										
P78	-	n	38	24	40	cs (previous cesarean section)	3010	55	9/10	-
>1 EXTRA X CHROMOSOME, MOSAIC										
P79	-	n	29	35	40	cs (fetal malpresentation)	2700	48	8/10	-
ISOCHROMOSOME Xq, MOSAIC										
P80	-	n	43	31	39	pvn	3170	54	9/10	-
PARTIAL Xp DUPLICATION, NON-MOSAIC										
P81	-	n	28	27	39	pvn	3200	53	9/10	-
TRIPLE & POLY X SYNDROMES & VARIANTS										
CLASSIC, NON-MOSAIC TRIPLE X SYNDROME										
P82	ac (talipes equinovarus)	n	37	29	38	pvn	3170	55	9/10	-

P83	ac (high risk with triple test)	n	31	27	40	pvn	3300	53	10/10	-
P84	ac (advanced maternal age)	n	33	37	38	pvn	3100	51	9/10	-
P85	ac (advanced maternal age)	n	54	40	42	cs (fetal distress)	3700	47	7/10	-
P86	-	n	34	25	37 (sp)	cs (cephalopelvic disproportion)	3000	54	9/10	-
P87	ac (advanced maternal age)	n	59	46	37 (sp)	cs (maternal hyperthyroidism)	3000	51	9/10	-
CLASSIC, MOSAIC TRIPLE X SYNDROME										
P88	-	n	23	24	38	pvn	3750	56	9/10	-
NON-MOSAIC PARTIAL TRIPLE X SYNDROME										
P89	-	n	25	22	40	pvn	3500	52	9/10	-
CLASSIC, NON-MOSAIC POLY X SYNDROME										
P90	-	n	31	31	40	pvn	2800	51	9/10	-
DOUBLE Y SYNDROME & VARIANTS										
NON-MOSAIC										
P91	-	n	40	35	38	pvn	3250	52	9/10	-
P92	-	n	33	20	41	pvn	3600	51	9/10	-
P93	-	n	21	21	40	pvn	4500	57	9/10	-
P94	ac (advanced maternal age)	ivf	38	39	39	pvn	3800	53	9/10	-
P95	-	n	35	30	39	pvn	3200	52	9/10	-
P96	-	n	42	37	40	pvn	3400	51	9/10	-
P97	-	n	31	26	35 (sp)	pvn	2350	47	9/10	-
P98	-	n	30	25	40	pvn	2950	50	10/10	-

P99	-	n	38	37	35 (sp)	pvn	3500	52	9/10	-
P100	ac (advanced maternal age)	n	43	37	32 (sp)	cs (fetal distress)	1890	46	9/10	-
MOSAIC										
P101	-	n	31	26	35 (sp)	pvn	2260	45	9/10	-
COMBINED PARTIAL Xp DELETION & DUPLICATION										
P102	-	n	22	20	36 (sp)	cs (fetal distress)	3060	51	4/7	transient circulatory failure
PARTIAL Y DELETION										
P103	ac (high risk with triple test)	n	33	34	36 (sp)	cs (fetal distress)	1440	40	5/8	severe transient thrombocytopenia
X-AUTOSOME TRANSLOCATIONS										
BALANCED										
P104	-	n	30	27	40	pvn	3500	52	9/10	-
P105	-	n	19	20	39	pvn	3720	55	9/10	-
P106	-	n	35	34	39	cs (fetal distress)	2740	47	9/10	-
UNBALANCED										
P107	-	n	33	35	38	cs (fetal distress)	3120	51	4/10	transient respiratory failure (pneumonia)
X-Y TRANSLOCATIONS										
TRANSLOCATION OF Xp & Yp										
P108	ac (abnormal external genitalia)	n	28	27	38	cs (cephalopelvic disproportion)	3450	54	8/9	-
P109	-	n	31	24	36 (sp, maternal fever & intrauterine infection)	pvn	2750	52	9/10	-
P110	-	n	28	28	38	pvn	3710	53	9/10	-
P111	-	n	35	32	40	pvn	3200	51	10/10	-

P112	-	n	44	41	40	pvn	3080	54	9/10	-
<i>TRANSLOCATION OF Xp & Yq IN FEMALE</i>										
P113	-	n	40	31	40	pvn	3500	51	9/10	-
P114	-	n	28	25	40	pvn	3800	55	10/10	-
P115	-	n	22	19	40	pvn	3500	50	10/10	-
<i>TRANSLOCATION OF Xp & Yq IN MALE</i>										
P116	-	n	30	21	37 (sp)	pvn	3720	52	9/10	-
<i>OTHER GONADAL DYSGENESES</i>										
<i>46,XX DSD</i>										
P117	-	n	43	40	38	pvn	3110	49	10/10	ambiguous genitalia
<i>46,XY DSD</i>										
P118	ac (advanced maternal age)	n	48	39	37 (sp)	pvn	3170	53	9/10	-
P119	-	n	31	33	37 (sp)	pvn	3600	56	9/10	-
P120	-	n	25	27	38	pvn	3810	57	9/10	-
P121	ac (advanced maternal age)	n	46	43	38	pvn	2600	48	9/10	-
P122	-	n	29	28	36 (sp)	cs (severe IUGR)	2250	48	10/10	-
P123	-	n	28	26	39	pvn	4370	53	9/10	-
P124	ac (advanced maternal age)	n	43	39	39	pvn	3850	51	9/10	-
P125	-	n	28	26	40	pvn	3450	56	9/10	-
P126	-	n	23	22	40	cs (fetal distress)	3850	57	7/10	-
P127	-	n	31	30	39	pvn	2700	54	9/10	-
P128	-	n	29	24	40	pvn	3600	56	9/10	-
P129	-	n	56	33	38	pvn	2880	52	9/10	-
P130	-	n	31	26	39	cs (fetal diaphragmatic hernia)	3200	51	8/9	congenital diaphragmatic hernia, ambiguous genitalia

P131	-	n	29	32	37 (sp)	cs (prolonged first stage)	2300	48	9/10	ambiguous genitalia
P132	-	n	35	28	32 (sp, intrauterine infection)	cs (intrauterine infection)	1850	39	4/6/7	transient circulatory failure, generalised edema, abnormality of the face
<i>46,XX/46,XY DSD</i>										
P133	-	n	47	37	38	cs (previous cesarean section)	3200	52	6/8	transient respiratory failure
<i>45,X/46,XY DSD</i>										
P134	-	n	46	35	39	pvn	3440	50	9/10	increased serum testosterone level
P135	-	n	29	23	38	pvn	2950	48	10/10	scrotal hypospadias
P136	-	n	33	35	40	pvn	3100	53	9/10	ambiguous genitalia
<i>45,X/46,XX/46,XY DSD</i>										
P137	-	n	27	26	40	pvn	3750	54	9/10	-

Abbreviations: ac: amniocentesis; cs: cesarean section; DSD: disorders of sex development; IUGR: intrauterine growth retardation; p: short arm of a chromosome; P: patient; pvn: *per vias naturales*; q: long arm of a chromosome; sp: spontaneous preterm birth; sy.: syndrome; v.: variant; X: X chromosome; Y: Y chromosome