



















CONCORDANCE STUDY				
Corre	1.Ploidy condition spondence in terms of euploidy/aneuplo (Transferrable/Not Transferrable)	bidy		
FULL	PARTIAL	NULL		
2. Percenta betwee	Chromosome concordan ge of correspondence of all studied chro en the different stages of the analyzed er	nce mosomes mbryos.		
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CONCORDANCE STUDY							
9 DISCORDANT CASES BLASTOMERES VS BF:							
ID sample	DAY 3 DAY 5/6						
	morphology	norphology Chromosomal status morphology TE Chromosomal status status		BF Chromosomal status			
68	10c1	-2p	BI1	NR	euploid		
206	8c1	Xp22.3->Xq21.31	BI 3,1,1	ET	euploid		
192	8c1	+9	BI 2,1,1	-9	euploid		
225	10c2f1	+5,6	BI 2,2,2	+10,-6	euploid		
258	8c1	+9	BI 3,0,3	euploid	euploid		
240	8c1	+12,19	BI 3,1,2	euploid	euploid	-	
232	8c1	+15,17-1,14,X	BI 3,1,1	euploid	euploid	-	
263	8c1	-1,9	Bl 3,1,1 euploid euploi		euploid		
271	7c2	-Y	BI 3,1,1	euploid	euploid	-	
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DOUBLE BF COLLECTION						
RESULTS:						
All the analyzed samples gave the same result for both BF biopsies						
ID SAMPLE	DAY 3 BIOPSY	1 st BF	2 nd BF	TE biopsy		
2	-Y	euploid	euploid	euploid		
3	+19,22	+19,22	+19,22	+19,22		
8	+16,18	+16,18	+16,18	+16,18		
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PGD FOR MONOGENIC DISEASES CASE REPORT In all cases BF gave the same result of trophectoderm biopsy							BF gave the esult of erm biopsy				
		DXS 1216	DXS 8031	IL2RG Mutation	DXS 559	DXS 8079	DXS 8066	DXS 8060	DXYS 1223	DXYS 1071	Genotype
(AND	BF	121	157	N	137/133	99	121/123	130/132	134/144	122/120	Normal Female
	TE	121	157	N	137/133	99	121/123	130/132	134/144	122/120	Normal Female
(AND)	BF	123	148	c.374insA	140	95	119	128	124/144	118/120	Affected Male
	TE	123	148	c.374insA	140	95	119	128	124/144	118/120	Affected Male
(Startes	BF	FA	FA	c.374insA	FA	99	121/123	130/132	FA	FA	No result
	TE	FA	FA	FA	FA	FA	FA	FA	FA	FA	No result
(CHA)	BF	121/ <mark>123</mark>	157/ <mark>148</mark>	N/c.374insA	133/ <mark>140</mark>	99/ <mark>95</mark>	121/ <mark>119</mark>	130/ <mark>128</mark>	133/144	122/120	Carrier Female
	TE	121/ <mark>123</mark>	ADO/148	N/c.374insA	133/ <mark>140</mark>	99/ <mark>95</mark>	121/ <mark>119</mark>	130/ <mark>128</mark>	133/144	122/120	Carrier Female
MALE		121	157	N	137	99	121	130	133/124	122/118	
FEMAL	E	121/ <mark>123</mark>	157/ <mark>148</mark>	N/c.374insA	133/140	99/ <mark>95</mark>	123/ <mark>119</mark>	132/ <mark>128</mark>	133/144	118/120	
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J Assist Reprod Genet DOI 10.1007/s10815-016-0655-y	CrossMark
EMBRYO BIOLOGY	
Artificial shrinkage of blastocyst improves pregnancy outcome: ar warming cycles Paolo Emanuele Levi-Setti ¹ · Francesca Menduni ¹ · Anto Pasquale Patrizio ² · Emanuela Morenghi ³ · Elena Albani	nalysis of 1028 consecutive

33				(*
Cycles (n°)	448	580	1028	
Mean age ^a	36.3±3.9	36.4 ± 3.7	36.3 ± 3.8	0.909
Frozen Embryo Transfers (n°)	437	570	1007	
FET canceled (n°)	11	10	21	
Thawed blastocysts (n°)	625	820	1445	
Survived blastocysts (n°)	604	804	1408	
Blastocyst survival rate (%)	96.6	97.8	97.3	0.192
Transferred blastocysts (n°)	604	804	1408	
Mean transferred blastocyst ^a	1.38 ± 0.50	1.41 ± 0.49	1.40 ± 0.49	0.318
Implants (n°)	140	240	379	
Implantation rate (%)	23.2	29.9	27.0	0.005
Pregnancies (n°)	122	207	329	
Pregnancy rate (%)	27.9	36.3	32.7	0.005
Delivery (n°)	79	152	231	
Delivery rate (%)	18.1	26.7	22.9	0.001
^a Mean±SD				
No difference in the	mean age surviva	al rate and mean t	ransferred blast	ocysts

CAN BLASTOCOELIC F GRADING OF	FLUID BE USED FOR EMBRYOS?
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	CONCLUSIONS
	DNA can be detected in the majority of Blastocoelic fluids (best performance on Day-5 expanded blastocysts) The DNA in the Blastocoelic Fluid is highly representative of the blastocyst chromosomal status (95.5% of cases) Blastocentesis is less invasive for the embryo Blastocentesis is more convenient for the lab Blastocentesis could be ethically more acceptable Segmental abnormalities can be detected in Blastocoelic fluid → possible use of bastocentesis for PGD for translocations. PGD for monogenic deseases BF analysis can be used for grading of embryos The Blastocoelic Fluid can be an alternative source of DNA for preimplantation genetic testing
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