Appendix: test results (ANOVA + Tukey)

Tests performed in SPSS in December 2023

ANOVA 1

Formulation_cat			Sum of Squares	df	Mean Square	F	**Sig.**
Reproduce	Mary	Between Groups	,734	2	,367	1,341	**,265**
		Within Groups	39,698	145	,274		
		Total	40,432	147			
	Marc	Between Groups	1,247	2	,623	,524	**,593**
		Within Groups	172,510	145	1,190		
		Total	173,757	147			
	Donor	Between Groups	,844	2	,422	,799	**,452**
		Within Groups	76,581	145	,528		
		Total	77,426	147			
	Doctor	Between Groups	3,979	2	1,990	1,296	**,277**
		Within Groups	222,582	145	1,535		
		Total	226,561	147			
Parent	Mary	Between Groups	,032	2	,016	,064	**,938**
		Within Groups	35,779	145	,247		

		Total	35,811	147			
	Marc	Between Groups	14,947	2	7,474	4,439	**,013**
		Within Groups	244,100	145	1,683		
		Total	259,047	147			
	Donor	Between Groups	20,007	2	10,004	5,958	**,003**
		Within Groups	243,473	145	1,679		
		Total	263,480	147			
	Doctor	Between Groups	,194	2	,097	,691	**,503**
		Within Groups	20,367	145	,140		
		Total	20,561	147			
Child	Mary	Between Groups	,338	2	,169	1,055	**,351**
		Within Groups	23,873	149	,160		
		Total	24,211	151			
	Marc	Between Groups	25,580	2	12,790	7,339	**<,001**
		Within Groups	259,683	149	1,743		
		Total	285,263	151			
	Donor	Between Groups	41,075	2	20,537	14,515	**<,001**
		Within Groups	210,820	149	1,415		
		Total	251,895	151			

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Doctor	Between Groups	,482	2	,241	,986	,375
	Within Groups	36,406	149	,244		
	Total	36,888	151			

Multiple Comparisons 1
Tukey HSD

Formulation _Cat	Dependent Var.	(I) Genetic_cat	(J) Genetic_cat	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
Reproduce	Mary	Unrelated	Brother	-,14286	,10571	,369	-,3932	,1075
			Twin	,01265	,10518	,992	-,2364	,2617
		Brother	Unrelated	,14286	,10571	,369	-,1075	,3932
			Twin	,15551	,10518	,304	-,0936	,4046
		Twin	Unrelated	-,01265	,10518	,992	-,2617	,2364
			Brother	-,15551	,10518	,304	-,4046	,0936
	Marc	Unrelated	Brother	,14286	,22036	,794	-,3790	,6647
			Twin	,22163	,21926	,571	-,2976	,7408
		Brother	Unrelated	-,14286	,22036	,794	-,6647	,3790
			Twin	,07878	,21926	,931	-,4404	,5980
		Twin	Unrelated	-,22163	,21926	,571	-,7408	,2976
			Brother	-,07878	,21926	,931	-,5980	,4404
	Donor	Unrelated	Brother	-,18367	,14682	,425	-,5314	,1640
			Twin	-,11510	,14609	,711	-,4610	,2308
		Brother	Unrelated	,18367	,14682	,425	-,1640	,5314

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				Mean Diff	Std Error	Sig	Lower	Upper
			Twin	,06857	,14609	**,886**	-,2774	,4145
		Twin	Unrelated	,11510	,14609	**,711**	-,2308	,4610
			Brother	-,06857	,14609	**,886**	-,4145	,2774
	Doctor	Unrelated	Brother	-,04082	,25031	**,985**	-,6336	,5519
			Twin	,32449	,24905	**,396**	-,2653	,9143
		Brother	Unrelated	,04082	,25031	**,985**	-,5519	,6336
			Twin	,36531	,24905	**,310**	-,2245	,9551
		Twin	Unrelated	-,32449	,24905	**,396**	-,9143	,2653
			Brother	-,36531	,24905	**,310**	-,9551	,2245
Parent	Mary	Unrelated	Brother	,02000	,09935	**,978**	-,2153	,2553
			Twin	-,01583	,10038	**,986**	-,2535	,2219
		Brother	Unrelated	-,02000	,09935	**,978**	-,2553	,2153
			Twin	-,03583	,10038	**,932**	-,2735	,2019
		Twin	Unrelated	,01583	,10038	**,986**	-,2219	,2535
			Brother	,03583	,10038	**,932**	-,2019	,2735
	Marc	Unrelated	Brother	,42000	,25950	**,241**	-,1945	1,0345
			Twin	,78000*	,26218	**,010**	,1591	1,4009
		Brother	Unrelated	-,42000	,25950	**,241**	-1,0345	,1945
			Twin	,36000	,26218	**,358**	-,2609	,9809
		Twin	Unrelated	-,78000*	,26218	**,010**	-1,4009	-,1591
			Brother	-,36000	,26218	**,358**	-,9809	,2609
	Donor	Unrelated	Brother	-,56000	,25916	**,082**	-1,1737	,0537
			Twin	-,89250*	,26185	**,002**	-1,5126	-,2724
		Brother	Unrelated	,56000	,25916	**,082**	-,0537	1,1737
			Twin	-,33250	,26185	**,415**	-,9526	,2876
		Twin	Unrelated	,89250*	,26185	**,002**	,2724	1,5126

						Sig.		
		Doctor	Unrelated	Brother	,33250	,26185	**,415**	-,2876	,9526
				Brother	,06000	,07496	**,703**	-,1175	,2375
				Twin	-,02667	,07573	**,934**	-,2060	,1527
			Brother	Unrelated	-,06000	,07496	**,703**	-,2375	,1175
				Twin	-,08667	,07573	**,488**	-,2660	,0927
			Twin	Unrelated	,02667	,07573	**,934**	-,1527	,2060
				Brother	,08667	,07573	**,488**	-,0927	,2660
Child	Mary	Unrelated	Brother	-,05686	,07966	**,756**	-,2455	,1317
			Twin	,05882	,07927	**,739**	-,1288	,2465
		Brother	Unrelated	,05686	,07966	**,756**	-,1317	,2455
			Twin	,11569	,07966	**,317**	-,0729	,3043
		Twin	Unrelated	-,05882	,07927	**,739**	-,2465	,1288
			Brother	-,11569	,07966	**,317**	-,3043	,0729
	Marc	Unrelated	Brother	,92275*	,26274	**,002**	,3008	1,5447
			Twin	,80392*	,26143	**,007**	,1850	1,4228
		Brother	Unrelated	-,92275*	,26274	**,002**	-1,5447	-,3008
			Twin	-,11882	,26274	**,893**	-,7408	,5032
		Twin	Unrelated	-,80392*	,26143	**,007**	-1,4228	-,1850
			Brother	,11882	,26274	**,893**	-,5032	,7408
	Donor	Unrelated	Brother	-1,23647*	,23673	**<,001**	-1,7969	-,6760
			Twin	-,88235*	,23556	**<,001**	-1,4400	-,3247
		Brother	Unrelated	1,23647*	,23673	**<,001**	,6760	1,7969
			Twin	,35412	,23673	**,296**	-,2063	,9145
		Twin	Unrelated	,88235*	,23556	**<,001**	,3247	1,4400
			Brother	-,35412	,23673	**,296**	-,9145	,2063
	Doctor	Unrelated	Brother	-,06196	,09838	**,804**	-,2949	,1709

		Twin	-,13725	,09789	**,342**	-,3690	,0945
Brother		Unrelated	,06196	,09838	**,804**	-,1709	,2949
		Twin	-,07529	,09838	**,725**	-,3082	,1576
Twin		Unrelated	,13725	,09789	**,342**	-,0945	,3690
		Brother	,07529	,09838	**,725**	-,1576	,3082

ANOVA 2

Genetic_cat			Sum of Squares	df	Mean Square	F	Sig.
Unrelated	Mary	Between Groups	1,760	2	,880	3,873	**,023**
		Within Groups	33,413	147	,227		
		Total	35,173	149			
	Marc	Between Groups	134,747	2	67,374	47,663	**<,001**
		Within Groups	207,793	147	1,414		
		Total	342,540	149			
	Donor	Between Groups	90,820	2	45,410	34,649	**<,001**
		Within Groups	192,653	147	1,311		
		Total	283,473	149			
	Doctor	Between Groups	40,380	2	20,190	36,613	**<,001**
		Within Groups	81,060	147	,551		
		Total	121,440	149			
Brother	Mary	Between Groups	,399	2	,200	,881	**,416**
		Within Groups	33,051	146	,226		
		Total	33,450	148			
	Marc	Between Groups	91,377	2	45,689	29,301	**<,001**

		Within Groups	227,656	146	1,559		
		Total	319,034	148			
	Donor	Between Groups	56,307	2	28,154	27,811	**<,001**
		Within Groups	147,800	146	1,012		
		Total	204,107	148			
	Doctor	Between Groups	43,297	2	21,649	31,002	**<,001**
		Within Groups	101,951	146	,698		
		Total	145,248	148			
Twin	Mary	Between Groups	1,892	2	,946	4,200	**,017**
		Within Groups	32,887	146	,225		
		Total	34,779	148			
	Marc	Between Groups	71,116	2	35,558	21,555	**<,001**
		Within Groups	240,844	146	1,650		
		Total	311,960	148			
	Donor	Between Groups	27,539	2	13,769	10,557	**<,001**
		Within Groups	190,421	146	1,304		
		Total	217,960	148			
	Doctor	Between Groups	16,301	2	8,151	12,352	**<,001**
		Within Groups	96,343	146	,660		
		Total	112,644	148			

Multiple Comparisons 2
Tukey HSD

Genetic_cat	Dependent Variable	(I) Formulation _cat	(J) Formulation _cat	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	Upper Bound
Unrelated	Mary	Reproduce	Parent	-,24735*	,09584	**,029**	-,4743	-,0204
			Child	-,21048	,09537	**,073**	-,4363	,0153
		Parent	Reproduce	,24735*	,09584	**,029**	,0204	,4743
			Child	,03686	,09488	**,920**	-,1878	,2615
		Child	Reproduce	,21048	,09537	**,073**	-,0153	,4363
			Parent	-,03686	,09488	**,920**	-,2615	,1878
	Marc	Reproduce	Parent	-2,19837*	,23900	**<,001**	-2,7642	-1,6325
			Child	-1,78111*	,23783	**<,001**	-2,3442	-1,2180
		Parent	Reproduce	2,19837*	,23900	**<,001**	1,6325	2,7642
			Child	,41725	,23662	**,186**	-,1430	,9775
		Child	Reproduce	1,78111*	,23783	**<,001**	1,2180	2,3442
			Parent	-,41725	,23662	**,186**	-,9775	,1430
	Donor	Reproduce	Parent	1,82490*	,23012	**<,001**	1,2800	2,3698
			Child	1,42137*	,22901	**<,001**	,8792	1,9636
		Parent	Reproduce	-1,82490*	,23012	**<,001**	-2,3698	-1,2800
			Child	-,40353	,22783	**,183**	-,9430	,1359
		Child	Reproduce	-1,42137*	,22901	**<,001**	-1,9636	-,8792
			Parent	,40353	,22783	**,183**	-,1359	,9430
	Doctor	Reproduce	Parent	1,08449*	,14927	**<,001**	,7311	1,4379
			Child	1,12645*	,14855	**<,001**	,7747	1,4782
		Parent	Reproduce	-1,08449*	,14927	**<,001**	-1,4379	-,7311
			Child	,04196	,14779	**,957**	-,3080	,3919
		Child	Reproduce	-1,12645*	,14855	**<,001**	-1,4782	-,7747
			Parent	-,04196	,14779	**,957**	-,3919	,3080

Brother	Mary	Reproduce	Parent	-,08449	,09564	**,652**	-,3110	,1420
			Child	-,12449	,09564	**,397**	-,3510	,1020
		Parent	Reproduce	,08449	,09564	**,652**	-,1420	,3110
			Child	-,04000	,09516	**,907**	-,2653	,1853
		Child	Reproduce	,12449	,09564	**,397**	-,1020	,3510
			Parent	,04000	,09516	**,907**	-,1853	,2653
	Marc	Reproduce	Parent	-1,92122*	,25101	**<,001**	-2,5156	-1,3269
			Child	-1,00122*	,25101	**<,001**	-1,5956	-,4069
		Parent	Reproduce	1,92122*	,25101	**<,001**	1,3269	2,5156
			Child	,92000*	,24974	**<,001**	,3286	1,5114
		Child	Reproduce	1,00122*	,25101	**<,001**	,4069	1,5956
			Parent	-,92000*	,24974	**<,001**	-1,5114	-,3286
	Donor	Reproduce	Parent	1,44857*	,20225	**<,001**	,9697	1,9275
			Child	,36857	,20225	**,166**	-,1103	,8475
		Parent	Reproduce	-1,44857*	,20225	**<,001**	-1,9275	-,9697
			Child	-1,08000*	,20123	**<,001**	-1,5565	-,6035
		Child	Reproduce	-,36857	,20225	**,166**	-,8475	,1103
			Parent	1,08000*	,20123	**<,001**	,6035	1,5565
	Doctor	Reproduce	Parent	1,18531*	,16798	**<,001**	,7876	1,5831
			Child	1,10531*	,16798	**<,001**	,7076	1,5031
		Parent	Reproduce	-1,18531*	,16798	**<,001**	-1,5831	-,7876
			Child	-,08000	,16713	**,881**	-,4757	,3157
		Child	Reproduce	-1,10531*	,16798	**<,001**	-1,5031	-,7076
			Parent	,08000	,16713	**,881**	-,3157	,4757
Twin	Mary	Reproduce	Parent	-,27583*	,09590	**,013**	-,5029	-,0487
			Child	-,16431	,09445	**,194**	-,3880	,0593

	Parent	Reproduce	,27583*	,09590	**,013**	,0487	,5029
		Child	,11152	,09544	**,474**	-,1145	,3375
	Child	Reproduce	,16431	,09445	**,194**	-,0593	,3880
		Parent	-,11152	,09544	**,474**	-,3375	,1145
Marc	Reproduce	Parent	-1,64000*	,25954	**<,001**	-2,2545	-1,0255
		Child	-1,19882*	,25561	**<,001**	-1,8041	-,5936
	Parent	Reproduce	1,64000*	,25954	**<,001**	1,0255	2,2545
		Child	,44118	,25829	**,206**	-,1704	1,0528
	Child	Reproduce	1,19882*	,25561	**<,001**	,5936	1,8041
		Parent	-,44118	,25829	**,206**	-1,0528	,1704
Donor	Reproduce	Parent	1,04750*	,23077	**<,001**	,5011	1,5939
		Child	,65412*	,22729	**,013**	,1159	1,1923
	Parent	Reproduce	-1,04750*	,23077	**<,001**	-1,5939	-,5011
		Child	-,39338	,22966	**,204**	-,9372	,1504
	Child	Reproduce	-,65412*	,22729	**,013**	-1,1923	-,1159
		Parent	,39338	,22966	**,204**	-,1504	,9372
Doctor	Reproduce	Parent	,73333*	,16415	**<,001**	,3446	1,1220
		Child	,66471*	,16167	**<,001**	,2819	1,0475
	Parent	Reproduce	-,73333*	,16415	**<,001**	-1,1220	-,3446
		Child	-,06863	,16336	**,907**	-,4554	,3182
	Child	Reproduce	-,66471*	,16167	**<,001**	-1,0475	-,2819
		Parent	,06863	,16336	**,907**	-,3182	,4554