

Survival and Weights of Pups of First Parity Mice

Noura El Habbal

2020

Contents

1 Raw Data	1
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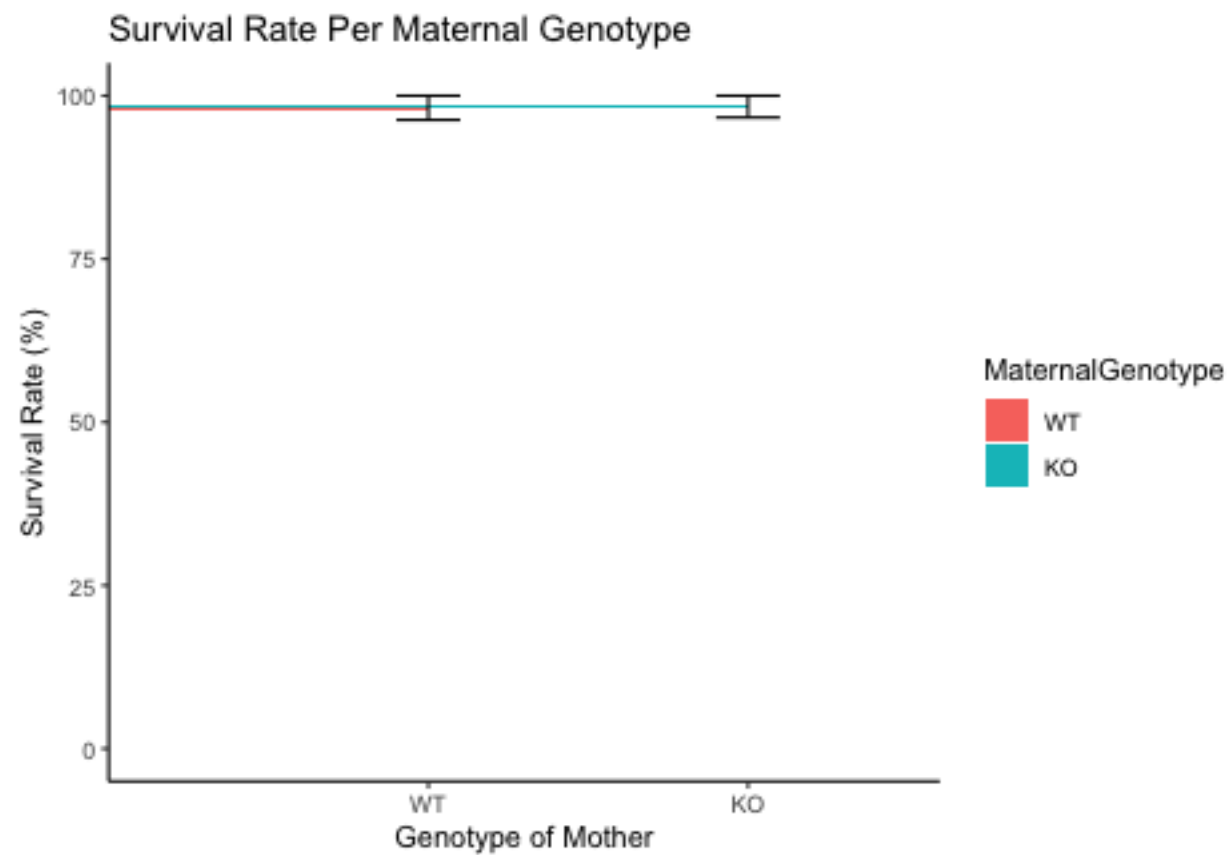
1 Raw Data

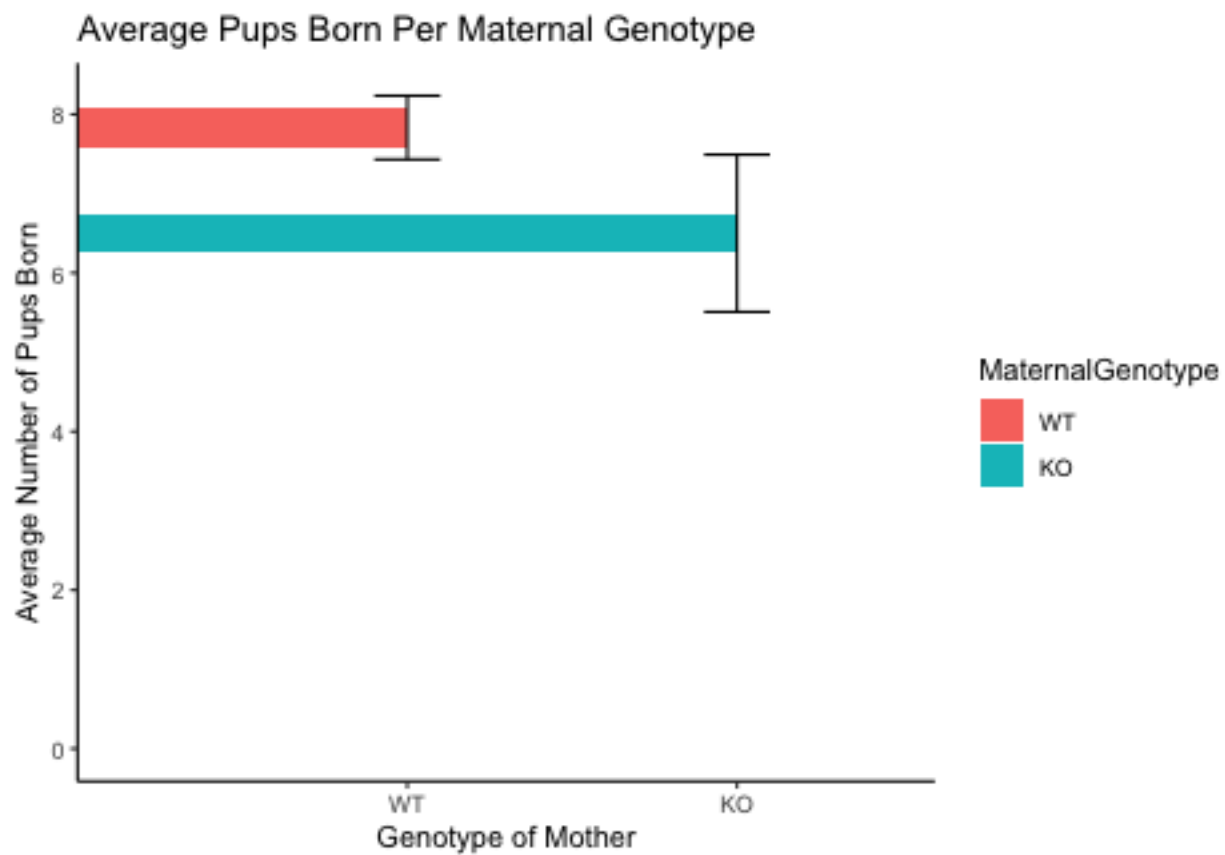
Table 1: Average Births and Survival Rates per Cage

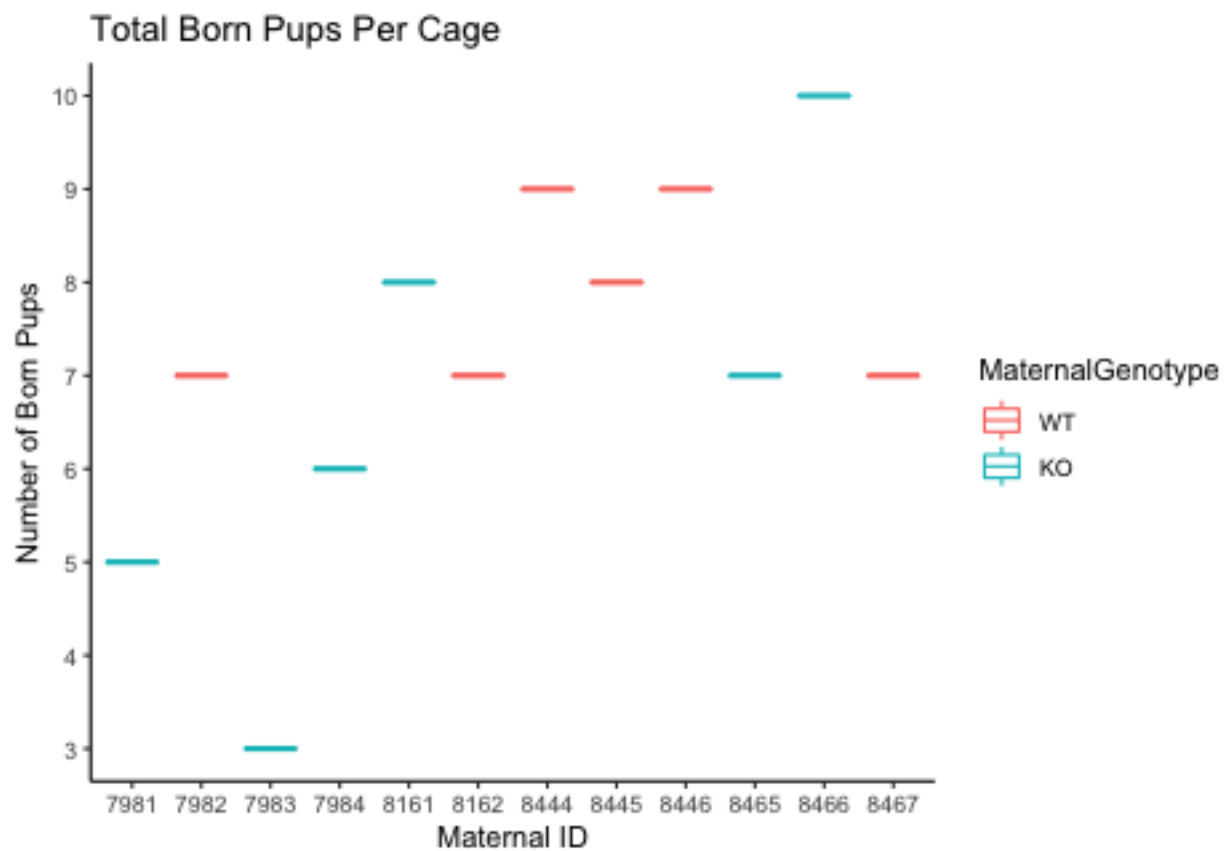
MaternalID	MaternalGenotype	BirthDate	Dead	na.rm	Total	is.na	Litter	Alive	alive.percent	survival.rat
7981	KO	6/8/19	0	TRUE	5	NA	1	5	100.0	1.00
7982	WT	6/20/19	0	TRUE	7	NA	1	7	100.0	1.00
7983	KO	6/7/19	0	TRUE	3	NA	1	3	100.0	1.00
7984	KO	6/9/19	0	TRUE	6	NA	1	6	100.0	1.00
8161	KO	6/6/19	0	TRUE	8	NA	1	8	100.0	1.00
8162	WT	6/5/19	0	TRUE	7	NA	1	7	100.0	1.00
8444	WT	7/5/19	1	TRUE	9	NA	1	8	88.9	0.88
8445	WT	7/6/19	0	TRUE	8	NA	1	8	100.0	1.00
8446	WT	7/8/19	0	TRUE	9	NA	1	9	100.0	1.00
8465	KO	7/8/19	0	TRUE	7	NA	1	7	100.0	1.00
8466	KO	7/3/19	1	TRUE	10	NA	1	9	90.0	0.90
8467	WT	7/6/19	0	TRUE	7	NA	1	7	100.0	1.00

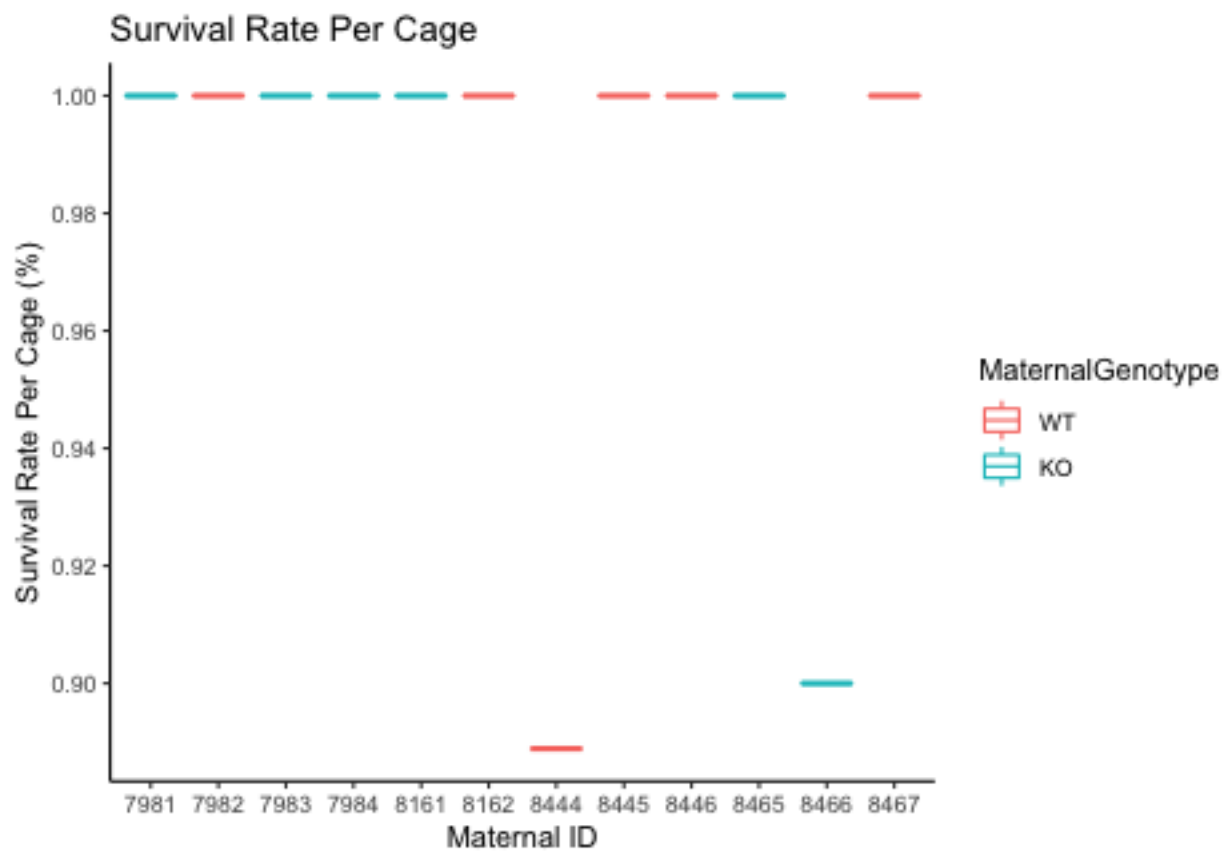
Table 2: Average Survival per Genotype

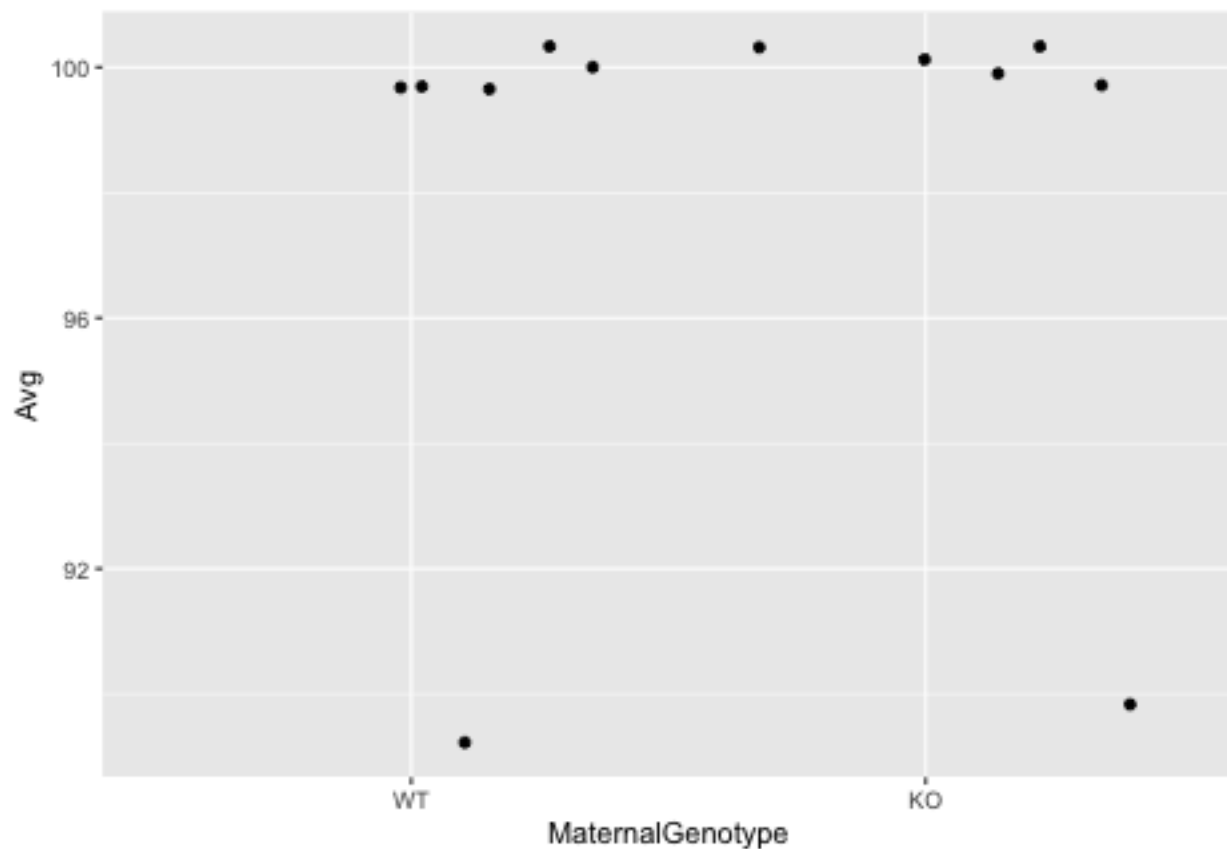
MaternalGenotype	Average.Survival	SE.Average.Survival	Number
WT	98.1	1.85	6
KO	98.3	1.67	6











MaternalID	MaternalGenotype	Average.Weight	SE.Average.Weight	Average.size	Total	is.na
7981	KO	1.44	0.016	5	5	NA
7982	WT	1.33	0.026	7	7	NA
7983	KO	1.47	0.058	3	3	NA
7984	KO	1.35	0.021	6	6	NA
8161	KO	1.23	0.025	8	8	NA
8162	WT	1.29	0.045	7	7	NA
8444	WT	1.32	0.017	8	8	NA
8445	WT	1.26	0.021	8	8	NA
8446	WT	1.24	0.024	9	9	NA
8465	KO	1.38	0.024	7	7	NA
8466	KO	1.31	0.030	9	9	NA
8467	WT	1.28	0.033	7	7	NA

MaternalGenotype	Average.Weight	SE.Average.Weight	Average.size	Total	is.na
WT	1.29	0.004	1	1	NA
KO	1.36	0.006	1	1	NA

term	df	sumsq	meansq	statistic	p.value
MaternalGenotype	1	0.018	0.018	3.97	0.074
Residuals	10	0.045	0.005	NA	NA

MaternalID	MaternalGenotype	Sex	Average.Weight	SE.Average.Weight	Average.size	Total	is.na
7981	KO	Female	4.20	0.000	2	2	NA
7981	KO	Male	4.25	0.150	2	2	NA
7983	KO	Female	4.70	0.100	2	2	NA
7983	KO	Male	4.30	NA	1	1	NA
7984	KO	Female	4.40	NA	1	1	NA
7984	KO	Male	4.10	0.058	3	3	NA
8161	KO	Female	3.95	0.050	2	2	NA
8161	KO	Male	4.15	0.050	2	2	NA
8162	WT	Female	3.65	0.050	2	2	NA
8162	WT	Male	3.90	0.100	2	2	NA
8444	WT	Female	4.10	0.000	2	2	NA
8444	WT	Male	4.10	0.000	2	2	NA
8445	WT	Female	4.00	0.100	2	2	NA
8445	WT	Male	4.05	0.050	2	2	NA
8446	WT	Female	4.35	0.150	2	2	NA
8446	WT	Male	4.25	0.150	2	2	NA
8465	KO	Female	4.35	0.250	2	2	NA
8465	KO	Male	4.15	0.150	2	2	NA
8466	KO	Female	4.50	0.000	2	2	NA
8466	KO	Male	4.65	0.050	2	2	NA
8467	WT	Female	3.77	0.131	4	4	NA

MaternalGenotype	Sex	Average.Weight	SE.Average.Weight	Average.size	Total	is.na
WT	Female	3.98	0.027	1	1	NA
WT	Male	4.08	0.032	1	1	NA
KO	Female	4.35	0.042	1	1	NA
KO	Male	4.27	0.022	1	1	NA

term	df	sumsq	meansq	statistic	p.value
MaternalGenotype	1	0.429	0.429	8.208	0.010
Sex	1	0.000	0.000	0.003	0.958
Residuals	18	0.941	0.052	NA	NA

term	df	sumsq	meansq	statistic	p.value
MaternalGenotype	1	0.429	0.429	8.122	0.011
Sex	1	0.000	0.000	0.003	0.958
MaternalGenotype:Sex	1	0.043	0.043	0.812	0.380
Residuals	17	0.898	0.053	NA	NA

MaternalID	MaternalGenotype	Sex	Average.Weight	SE.Average.Weight	Average.size	Total	is.na
7981	KO	Female	7.95	0.050	2	2	NA
7981	KO	Male	8.05	0.050	2	2	NA
7983	KO	Female	9.05	0.150	2	2	NA
7983	KO	Male	7.20	NA	1	1	NA
7984	KO	Female	6.20	NA	1	1	NA

MaternalID	MaternalGenotype	Sex	Average.Weight	SE.Average.Weight	Average.size	Total	is.na
7984	KO	Male	7.77	0.088	3	3	NA
8161	KO	Female	7.25	0.150	2	2	NA
8161	KO	Male	7.70	0.100	2	2	NA
8162	WT	Female	7.15	0.150	2	2	NA
8162	WT	Male	7.20	0.100	2	2	NA
8444	WT	Female	8.05	0.150	2	2	NA
8444	WT	Male	7.95	0.250	2	2	NA
8445	WT	Female	7.95	0.050	2	2	NA
8445	WT	Male	8.00	0.500	2	2	NA
8446	WT	Female	8.15	0.250	2	2	NA
8446	WT	Male	8.05	0.450	2	2	NA
8465	KO	Female	7.70	0.400	2	2	NA
8465	KO	Male	7.80	0.000	2	2	NA
8466	KO	Female	8.55	0.050	2	2	NA
8466	KO	Male	8.55	0.150	2	2	NA
8467	WT	Female	7.25	0.210	4	4	NA

MaternalGenotype	Sex	Average.Weight	SE.Average.Weight	Average.size	Total	is.na
WT	Female	7.71	0.034	1	1	NA
WT	Male	7.80	0.092	1	1	NA
KO	Female	7.78	0.058	1	1	NA
KO	Male	7.84	0.023	1	1	NA

term	df	sumsq	meansq	statistic	p.value
MaternalGenotype	1	0.021	0.021	0.051	0.824
Sex	1	0.028	0.028	0.069	0.796
Residuals	18	7.381	0.410	NA	NA

term	df	sumsq	meansq	statistic	p.value
MaternalGenotype	1	0.021	0.021	0.048	0.829
Sex	1	0.028	0.028	0.065	0.802
MaternalGenotype:Sex	1	0.001	0.001	0.002	0.961
Residuals	17	7.380	0.434	NA	NA

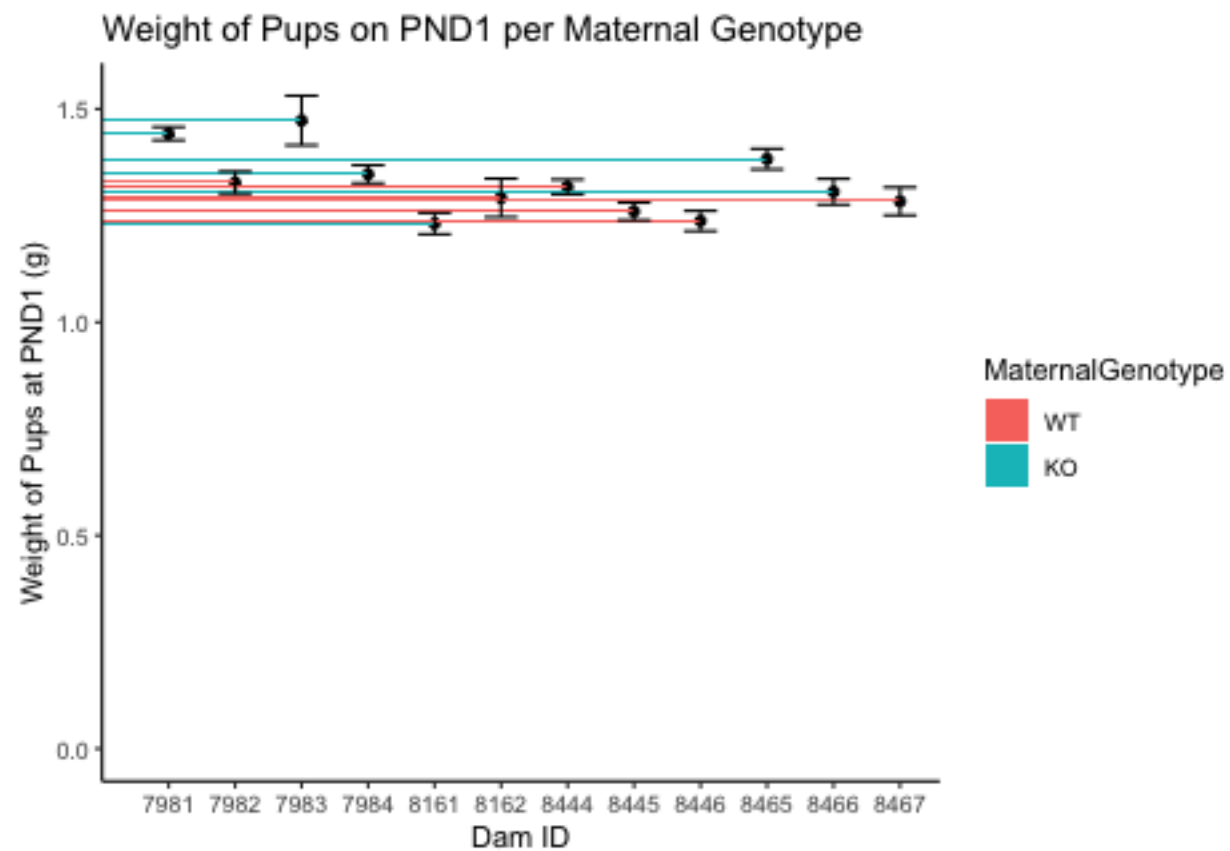
MaternalID	MaternalGenotype	Sex	Average.Weight	SE.Average.Weight	Average.size	Total	is.na
7981	KO	Female	8.60	0.100	2	2	NA
7981	KO	Male	8.85	0.050	2	2	NA
7983	KO	Female	9.50	0.500	2	2	NA
7983	KO	Male	7.80	NA	1	1	NA
7984	KO	Female	6.90	NA	1	1	NA
7984	KO	Male	8.10	0.058	3	3	NA
8161	KO	Female	7.65	0.150	2	2	NA
8161	KO	Male	8.15	0.050	2	2	NA
8162	WT	Female	7.65	0.150	2	2	NA
8162	WT	Male	7.70	0.100	2	2	NA

MaternalID	MaternalGenotype	Sex	Average.Weight	SE.Average.Weight	Average.size	Total	is.na
8444	WT	Female	8.55	0.050	2	2	NA
8444	WT	Male	8.60	0.200	2	2	NA
8445	WT	Female	8.45	0.050	2	2	NA
8445	WT	Male	8.60	0.500	2	2	NA
8446	WT	Female	8.70	0.100	2	2	NA
8446	WT	Male	8.80	0.500	2	2	NA
8465	KO	Female	8.25	0.350	2	2	NA
8465	KO	Male	8.45	0.050	2	2	NA
8466	KO	Female	9.00	0.100	2	2	NA
8466	KO	Male	9.00	0.000	2	2	NA
8467	WT	Female	7.60	0.248	4	4	NA

MaternalGenotype	Sex	Average.Weight	SE.Average.Weight	Average.size	Total	is.na
WT	Female	8.19	0.037	1	1	NA
WT	Male	8.43	0.103	1	1	NA
KO	Female	8.32	0.073	1	1	NA
KO	Male	8.39	0.010	1	1	NA

term	df	sumsq	meansq	statistic	p.value
MaternalGenotype	1	0.018	0.018	0.045	0.834
Sex	1	0.107	0.107	0.262	0.615
Residuals	18	7.338	0.408	NA	NA

term	df	sumsq	meansq	statistic	p.value
MaternalGenotype	1	0.018	0.018	0.043	0.839
Sex	1	0.107	0.107	0.249	0.624
MaternalGenotype:Sex	1	0.033	0.033	0.076	0.786
Residuals	17	7.305	0.430	NA	NA



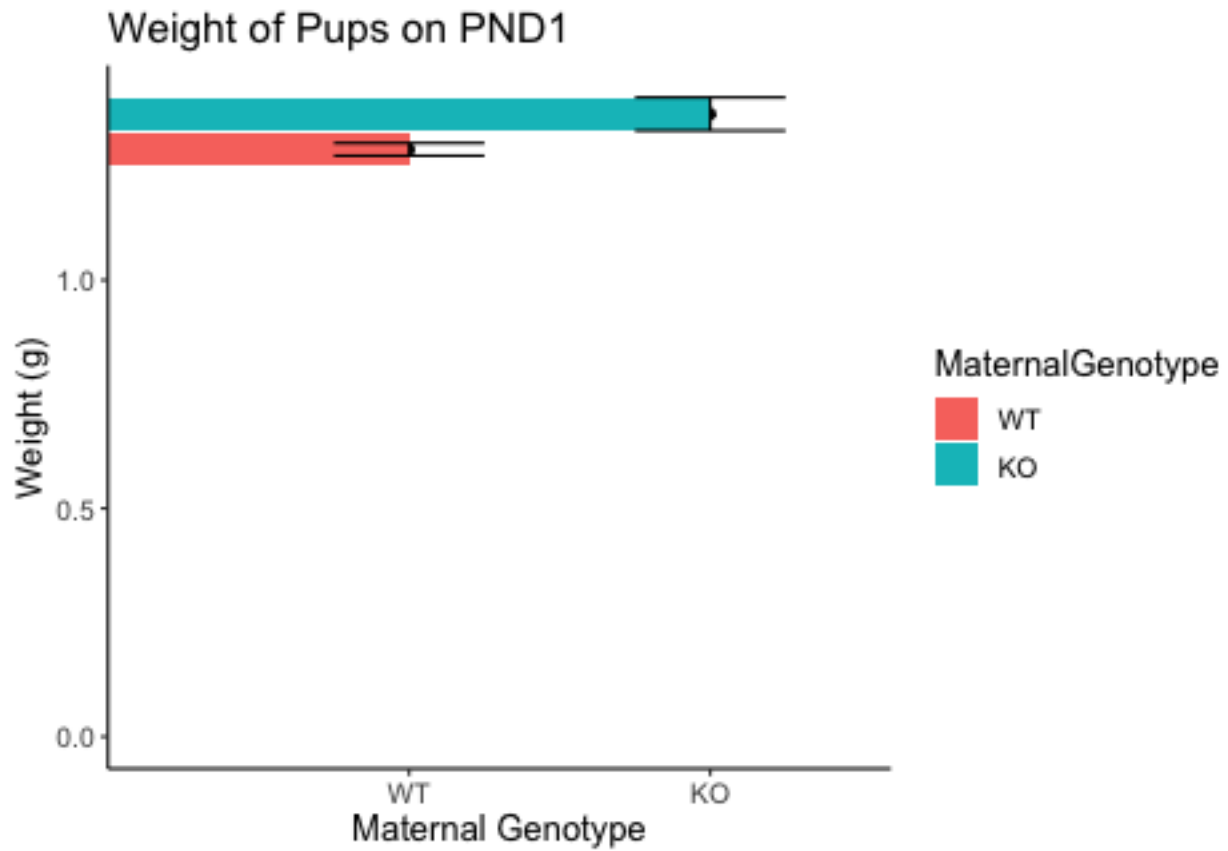
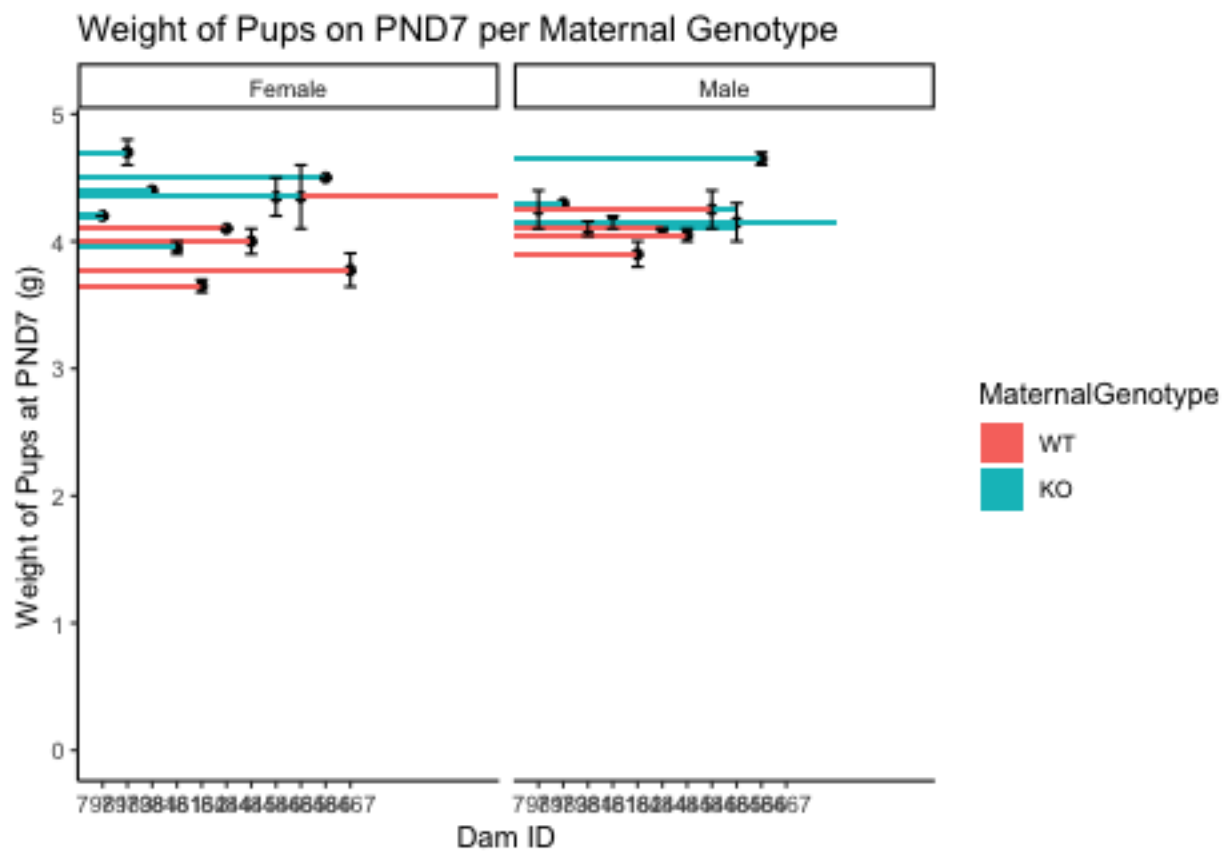


Table 18: Welch's t-test for effects of maternal genotype on PND1 weights

estimate	estimate1	estimate2	statistic	p.value	parameter	conf.low	conf.high	method	alter
-0.078	1.29	1.36	-1.99	0.09	6.43	-0.171	0.016	Welch Two Sample t-test	two.s



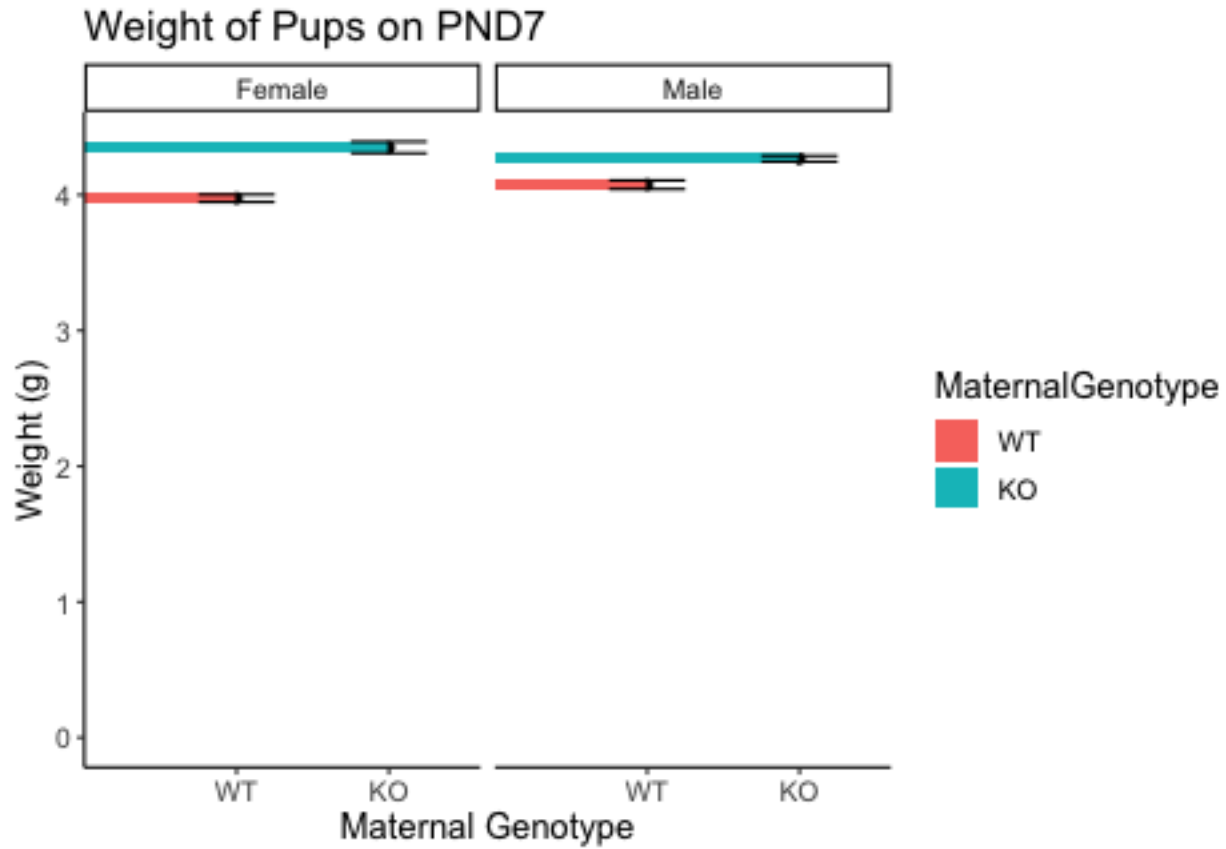
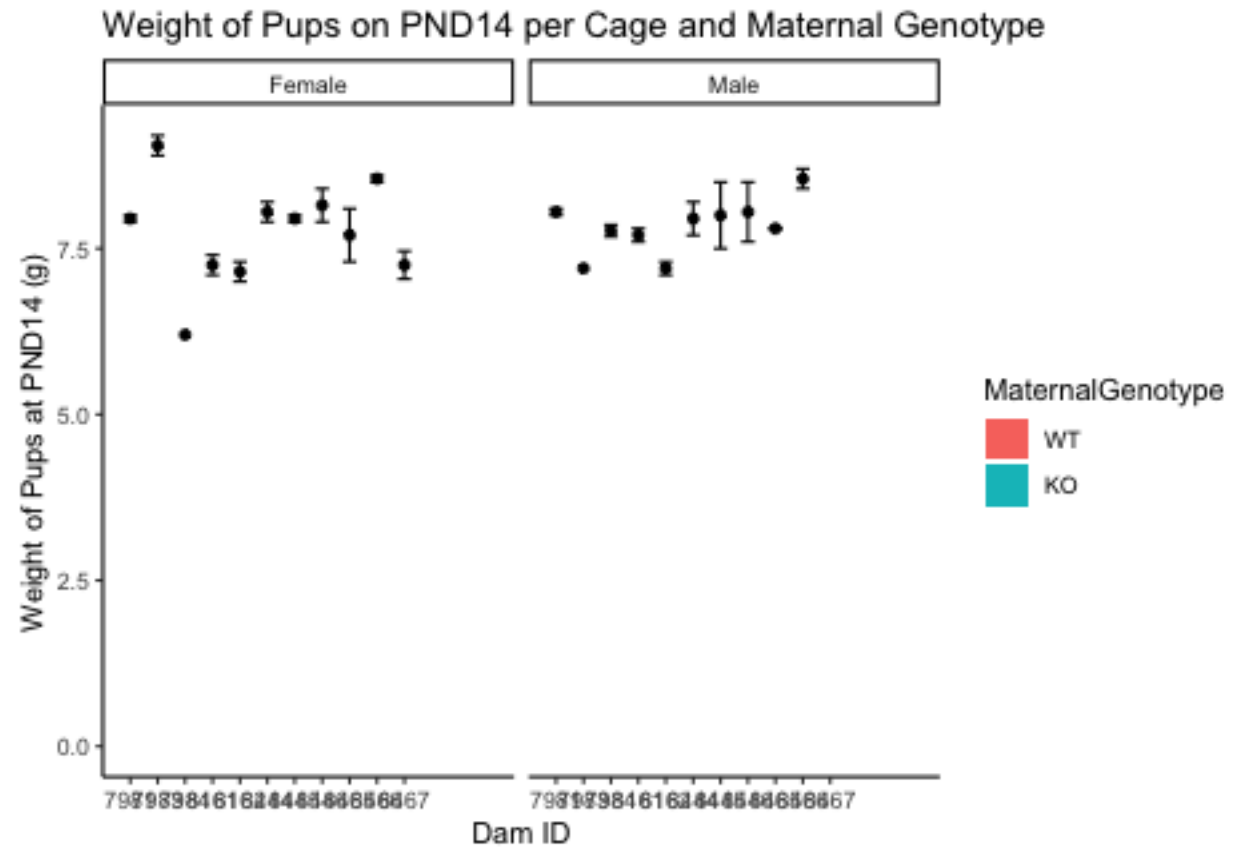


Table 19: Welch’s t-test for effects of maternal genotype on PND7 weights in males

estimate	estimate1	estimate2	statistic	p.value	parameter	conf.low	conf.high	method	alter
-0.192	4.08	4.27	-1.75	0.119	7.88	-0.445	0.061	Welch Two Sample t-test	two.s

Table 20: Welch’s t-test for effects of maternal genotype on PND7 weights in females

estimate	estimate1	estimate2	statistic	p.value	parameter	conf.low	conf.high	method	alter
-0.375	3.98	4.35	-2.32	0.047	8.39	-0.745	-0.005	Welch Two Sample t-test	two.s



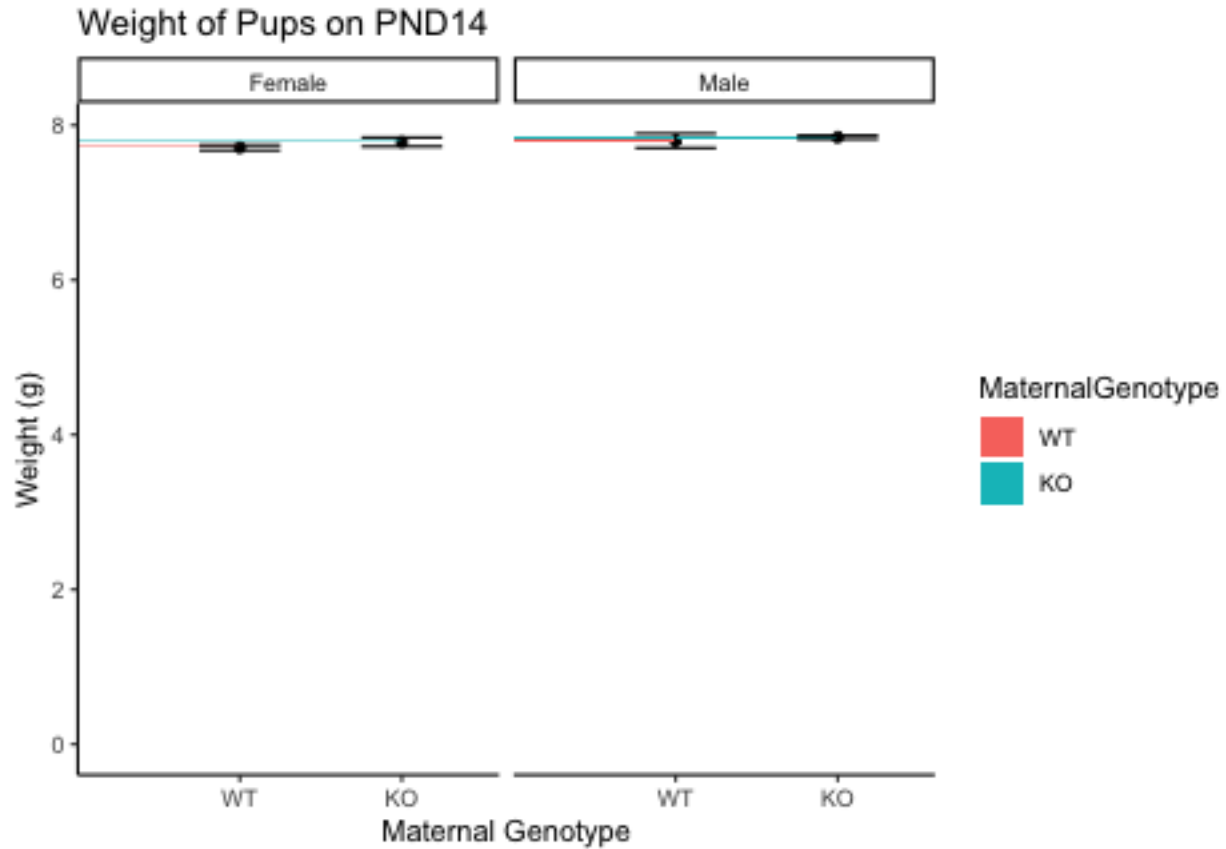


Table 21: Welch's t-test for effects of maternal genotype on PND14 weights in males

estimate	estimate1	estimate2	statistic	p.value	parameter	conf.low	conf.high	method	alter
-0.044	7.8	7.84	-0.164	0.874	7.06	-0.683	0.594	Welch Two Sample t-test	two.s

Table 22: Welch's t-test for effects of maternal genotype on PND14 weights in females

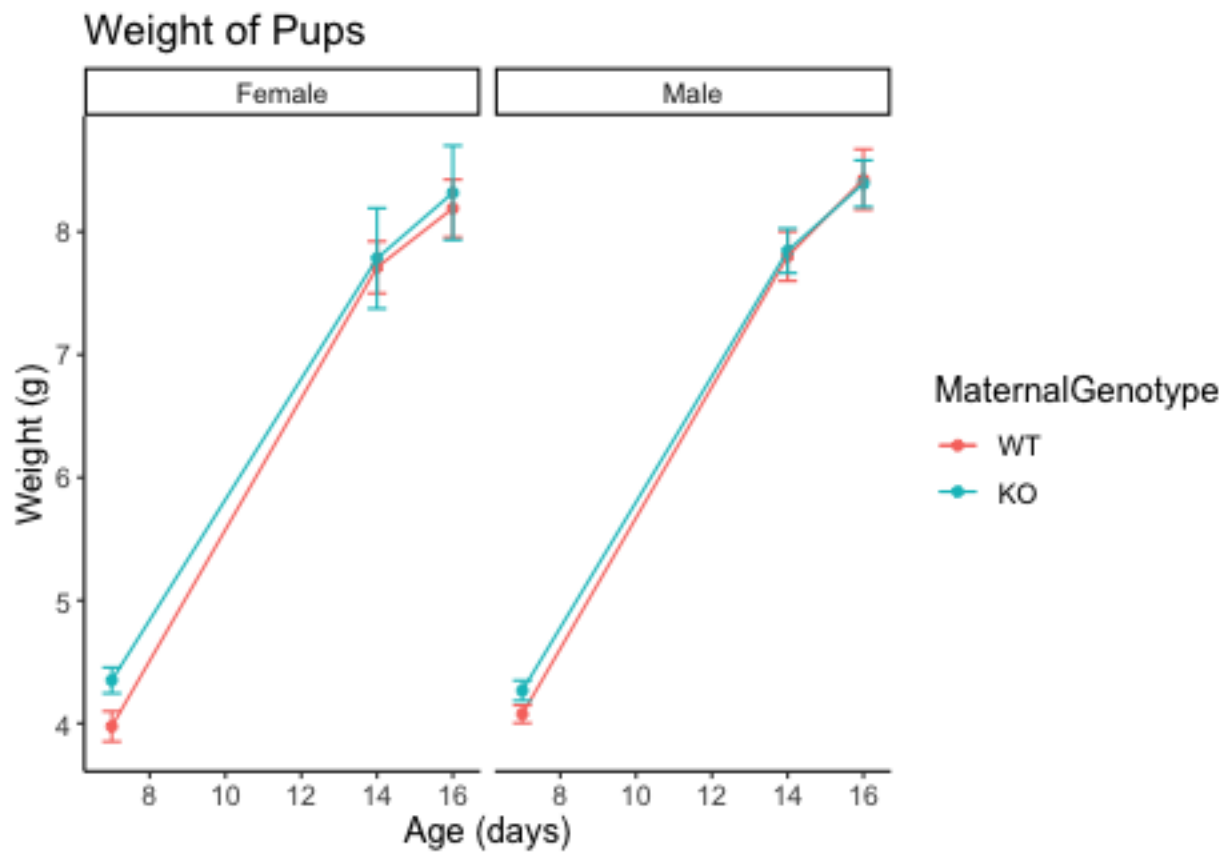
estimate	estimate1	estimate2	statistic	p.value	parameter	conf.low	conf.high	me
-0.073	7.71	7.78	-0.159	0.878	7.37	-1.15	1	We
[(figures	/PUPweight_g	raphsPND16-1	.png)<!--	> [(figu	res/PUPweigh	t_graphsPND	16-2.png)<!--	- -]

Table 23: Welch's t-test for effects of maternal genotype on PND16 weights in males

estimate	estimate1	estimate2	statistic	p.value	parameter	conf.low	conf.high	method	alter
0.033	8.43	8.39	0.107	0.918	6.28	-0.719	0.785	Welch Two Sample t-test	two.s

Table 24: Welch's t-test for effects of maternal genotype on PND16 weights in females

estimate	estimate1	estimate2	statistic	p.value	parameter	conf.low	conf.high	method	alter
-0.127	8.19	8.32	-0.282	0.785	8.03	-1.16	0.908	Welch Two Sample t-test	two.s



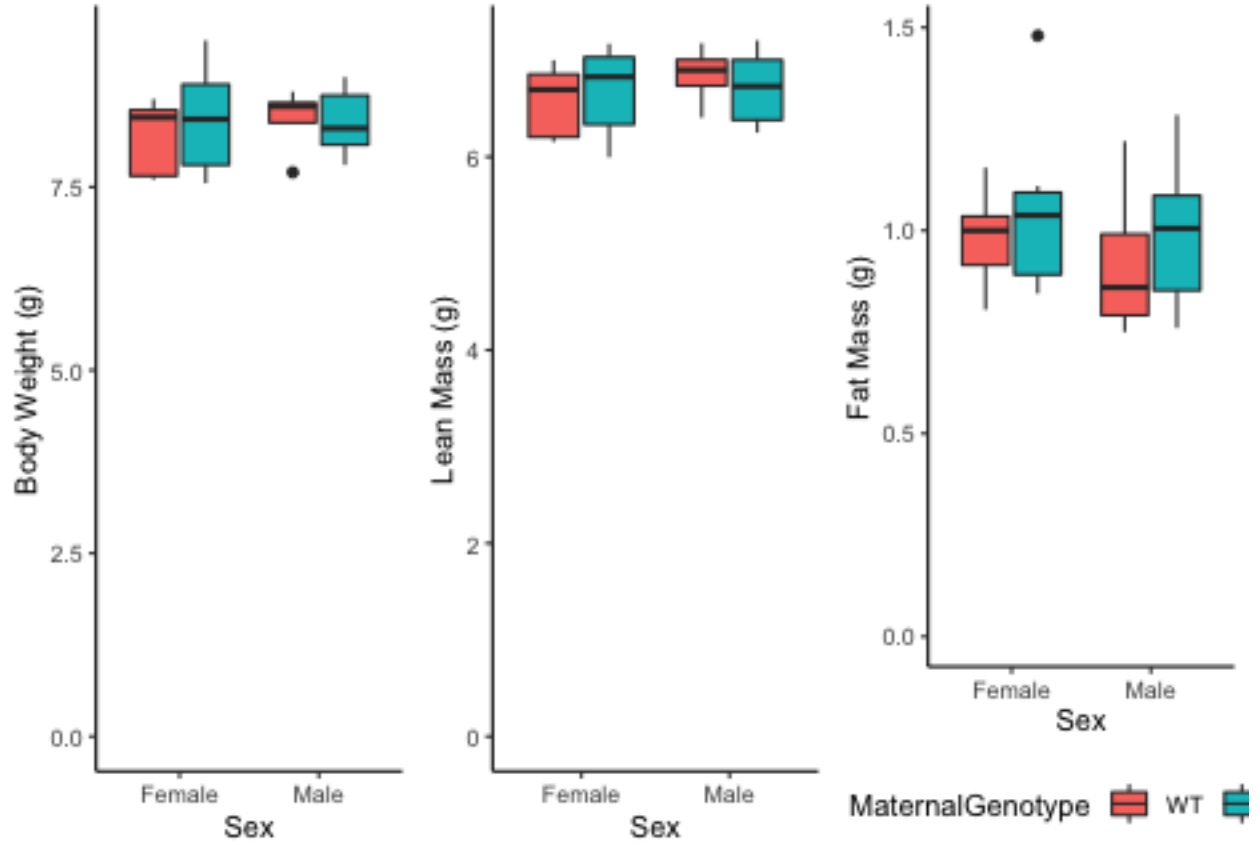


Table 25: Welch's t-test for effects of maternal genotype on aCasein milk composition

estimate	estimate1	estimate2	statistic	p.value	parameter	conf.low	conf.high	method	alter
-0.011	8.43	8.44	-0.045	0.965	12	-0.556	0.534	Welch Two Sample t-test	two.s

Table 26: Welch's t-test for effects of maternal genotype on aCasein milk composition

estimate	estimate1	estimate2	statistic	p.value	parameter	conf.low	conf.high	method	alter
-0.333	8.09	8.43	-1.15	0.264	19.6	-0.939	0.272	Welch Two Sample t-test	two.s

Table 27: Welch's t-test for effects of maternal genotype on aCasein milk composition

estimate	estimate1	estimate2	statistic	p.value	parameter	conf.low	conf.high	method	alter
-0.094	0.922	1.02	-0.683	0.511	9.68	-0.401	0.214	Welch Two Sample t-test	two.s

Table 28: Welch's t-test for effects of maternal genotype on aCasein milk composition

estimate	estimate1	estimate2	statistic	p.value	parameter	conf.low	conf.high	method	alter
-0.074	0.985	1.06	-0.863	0.4	16.9	-0.256	0.107	Welch Two Sample t-test	two.s

Table 29: Welch's t-test for effects of maternal genotype on aCasein milk composition

estimate	estimate1	estimate2	statistic	p.value	parameter	conf.low	conf.high	method	alter
0.089	6.84	6.75	0.506	0.62	15.3	-0.286	0.464	Welch Two Sample t-test	two.s

Table 30: Welch's t-test for effects of maternal genotype on aCasein milk composition

estimate	estimate1	estimate2	statistic	p.value	parameter	conf.low	conf.high	method	alter
-0.171	6.51	6.68	-0.875	0.391	21.7	-0.576	0.234	Welch Two Sample t-test	two.s