

Juvenile male sleep data

Light sleep amount	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	61.55 ± 0.963		Genotype	117.7	2	58.84	F (2	42) = 5.516	P=0.0075	WT vs. HET	-0.2215	-2.962 to 2.519	0.979	ns
HET	61.77 ± 0.656		Residual	448	42	10.67				WT vs. HOM	3.633	0.4828 to 6.782	0.0205	*
HOM	57.91 ± 0.983		Total	565.7	44					HET vs. HOM	3.854	0.8479 to 6.860	0.0091	**
Dark sleep amount	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	23.23 ± 1.093		Genotype	172.2	2	86.11	F (2	42) = 5.924	P=0.0054	WT vs. HET	0.9953	-2.204 to 4.195	0.7318	ns
HET	22.23 ± 0.849		Residual	610.5	42	14.54				WT vs. HOM	4.997	1.320 to 8.674	0.0055	**
HOM	18.23 ± 1.013		Total	782.7	44					HET vs. HOM	4.002	0.4925 to 7.511	0.0222	*
Daily sleep amount	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	42.39 ± 0.506		Genotype	140.9	2	70.3	F (2	42) = 23.48	P=<0.0001	WT vs. HET	0.3869	-1.066 to 1.840	0.7952	ns
HET	42 ± 0.434		Residual	126	42	3				WT vs. HOM	4.315	2.645 to 5.985	<0.0001	****
HOM	38.07 ± 0.266		Total	266.9	44					HET vs. HOM	3.928	2.334 to 5.522	<0.0001	****
Light sleep bouts	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	13.34 ± 0.613		Genotype	55153	2	27577	F (2	42) = 0.8445	P=0.4369	WT vs. HET	n/a			
HET	14.12 ± 0.784		Residual	1371477	42	32654				WT vs. HOM				
HOM	12.67 ± 0.912		Total	1426630	44					HET vs. HOM				
Dark sleep bouts	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	6.535 ± 0.413		Genotype	104032	2	52016	F (2	42) = 3.177	P=0.0519	WT vs. HET	-78.49	-185.9 to 28.88	0.19	ns
HET	7.843 ± 0.643		Residual	687635	42	16372				WT vs. HOM	35.53	-87.87 to 158.9	0.7651	ns
HOM	5.943 ± 0.356		Total	791667	44					HET vs. HOM	114	-3.755 to 231.8	0.0595	ns

Juvenile female sleep data

Light sleep amount	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	59.28 ± 0.798		Genotype	111.2	2	55.59	F (2	45) = 4.238	P=0.0206	WT vs. HET	0.07865	-2.741 to 2.898	0.9975	ns
HET	59.2 ± 0.825		Residual	590.4	45	13.12				WT vs. HOM	3.941	0.3569 to 7.524	0.0282	*
HOM	55.34 ± 1.235		Total	701.5	47					HET vs. HOM	3.862	0.3647 to 7.359	0.0274	*
Dark sleep amount	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	22.16 ± 0.945		Genotype	95.98	2	47.99	F (2	45) = 4.341	P=0.0189	WT vs. HET	0.221	-2.367 to 2.809	0.9767	ns
HET	21.94 ± 0.627		Residual	497.5	45	11.05				WT vs. HOM	3.733	0.4432 to 7.023	0.0228	*
HOM	18.42 ± 0.906		Total	593.5	47					HET vs. HOM	3.512	0.3015 to 6.722	0.0292	*
Daily sleep amount	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	40.72 ± 0.377		Genotype	103.4	2	51.69	F (2	45) = 10.25	P=0.0002	WT vs. HET	0.1498	-1.599 to 1.898	0.9765	ns
HET	40.57 ± 0.535		Residual	227	45	5.044				WT vs. HOM	3.837	1.615 to 6.059	0.0004	***
HOM	36.88 ± 0.939		Total	330.4	47					HET vs. HOM	3.687	1.518 to 5.856	0.0005	***
Light sleep bouts	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	12.25 ± 0.662		Genotype	250397	2	125199	F (2	45) = 4.512	P=0.0164	WT vs. HET	-59.71	-189.4 to 69.97	0.5094	ns
HET	13.24 ± 0.639		Residual	1248782	45	27751				WT vs. HOM	139.7	-25.17 to 304.5	0.1113	ns
HOM	9.921 ± 0.756		Total	1499179	47					HET vs. HOM	199.4	38.51 to 360.2	0.0119	*
Dark sleep bouts	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	6.732 ± 0.602		Genotype	69545	2	34772	F (2	45) = 1.528	P=0.2281	WT vs. HET	n/a			
HET	7.654 ± 0.596		Residual	1024340	45	22763				WT vs. HOM				
HOM	5.998 ± 0.581		Total	1093885	47					HET vs. HOM				

Adolescent male sleep data

Light sleep amount	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	61.87 ± 0.962		Genotype	74.29	2	37.15	F (2	39) = 2.410	P=0.1031	WT vs. HET	n/a			
HET	59.48 ± 0.962		Residual	601.1	39	15.41				WT vs. HOM				
HOM	58.53 ± 1.219		Total	675.4	41					HET vs. HOM				
Dark sleep amount	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	24.45 ± 0.92		Genotype	237.7	2	118.9	F (2	39) = 4.145	P=0.0233	WT vs. HET	-2.909	-7.336 to 1.518	0.2573	ns
HET	27.36 ± 1.373		Residual	1118	39	28.68				WT vs. HOM	3.727	-2.185 to 9.640	0.2856	ns
HOM	20.72 ± 2.537		Total	1356	41					HET vs. HOM	6.636	0.8676 to 12.40	0.021	*
Daily sleep amount	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	43.16 ± 0.433		Genotype	79.44	2	39.72	F (2	39) = 8.777	P=0.0007	WT vs. HET	-0.2568	-2.015 to 1.502	0.9327	ns
HET	43.42 ± 0.485		Residual	176.5	39	4.525				WT vs. HOM	3.538	1.189 to 5.886	0.0021	**
HOM	39.62 ± 1.103		Total	255.9	41					HET vs. HOM	3.794	1.503 to 6.086	0.0007	***
Light sleep bouts	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	12.25 ± 0.772		Genotype	142057	2	71029	F (2	39) = 3.277	P=0.0484	WT vs. HET	88.44	-33.27 to 210.2	0.1929	ns
HET	10.78 ± 0.49		Residual	845436	39	21678				WT vs. HOM	160.7	-1.819 to 323.3	0.0532	ns
HOM	9.574 ± 0.48		Total	987493	41					HET vs. HOM	72.3	-86.30 to 230.9	0.5134	ns
Dark sleep bouts	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	6.565 ± 0.554		Genotype	79073	2	39537	F (2	39) = 4.481	P=0.0177	WT vs. HET	65.53	-12.12 to 143.2	0.1125	ns
HET	5.473 ± 0.225		Residual	344105	39	8823				WT vs. HOM	120.2	16.50 to 223.9	0.0199	*
HOM	4.562 ± 0.326		Total	423178	41					HET vs. HOM	54.68	-46.51 to 155.9	0.3947	ns

Adolescent female sleep data

Light sleep amount	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	58.8 ± 1.004		Genotype	107.6	2	53.82	F (2	30) = 3.816	P=0.0334	WT vs. HET	3.016	-0.6907 to 6.722	0.1282	ns
HET	55.79 ± 1.354		Residual	423.1	30	14.1				WT vs. HOM	4.345	0.1849 to 8.506	0.0392	*
HOM	54.46 ± 0.651		Total	530.8	32					HET vs. HOM	1.33	-2.896 to 5.555	0.7206	ns
Dark sleep amount	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	22.46 ± 0.927		Genotype	103.7	2	51.85	F (2	30) = 2.991	P=0.0654	WT vs. HET	-2.06	-6.169 to 2.049	0.4419	ns
HET	24.52 ± 1.434		Residual	520	30	17.33				WT vs. HOM	2.581	-2.031 to 7.193	0.3641	ns
HOM	19.88 ± 1.43		Total	623.7	32					HET vs. HOM	4.641	-0.04413 to 9.326	0.0526	ns
Daily sleep amount	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	40.63 ± 0.527		Genotype	64.8	2	32.4	F (2	30) = 5.564	P=0.0088	WT vs. HET	0.478	-1.904 to 2.859	0.8743	ns
HET	40.15 ± 0.86		Residual	174.7	30	5.823				WT vs. HOM	3.463	0.7899 to 6.136	0.009	**
HOM	37.17 ± 0.777		Total	239.5	32					HET vs. HOM	2.985	0.2698 to 5.701	0.0288	*
Light sleep bouts	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	11.83 ± 0.628		Genotype	183787	2	91894	F (2	30) = 5.810	P=0.0074	WT vs. HET	61.59	-62.53 to 185.7	0.449	ns
HET	10.81 ± 0.664		Residual	474502	30	15817				WT vs. HOM	192.1	52.78 to 331.4	0.0053	**
HOM	8.632 ± 0.463		Total	658289	32					HET vs. HOM	130.5	-11.00 to 272.0	0.0752	ns
Dark sleep bouts	Mean	SEM	ANOVA	SS	DF	MS	F (DFn)	DFd)	P value	Tukey's test	Mean Diff.	95.00% CI of diff.	Adjusted P Value	Summary
WT	7.379 ± 0.729		Genotype	119325	2	59663	F (2	30) = 4.071	P=0.0273	WT vs. HET	44.65	-74.82 to 164.1	0.6312	ns
HET	6.635 ± 0.394		Residual	439672	30	14656				WT vs. HOM	154.2	20.12 to 288.3	0.0215	*
HOM	4.809 ± 0.578		Total	558997	32					HET vs. HOM	109.6	-26.64 to 245.8	0.1338	ns