

Linear Mixed Model Analysis Report

Data File: CMF_Catalogue_data_T1D(1).xlsx

Generated: 2026-01-29 17:48:00

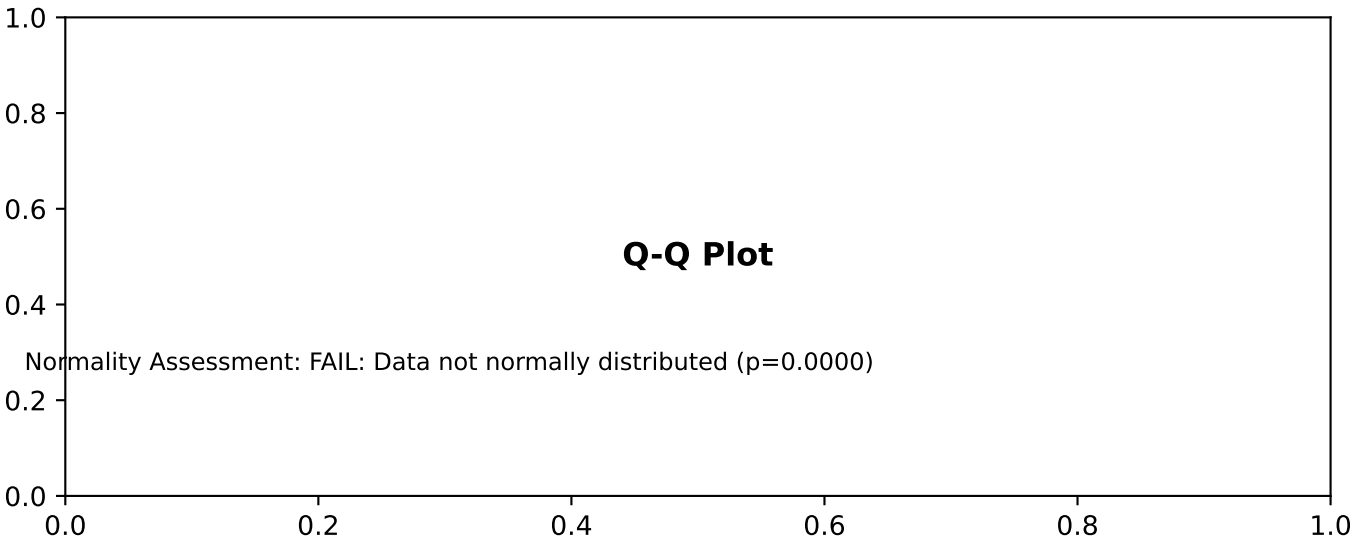
Total Analyses: 4

Analysis 1: marker1_sum

Animal ID: ID

Independent Variables: dose, substance, sex

Dependent Variable: marker1_sum



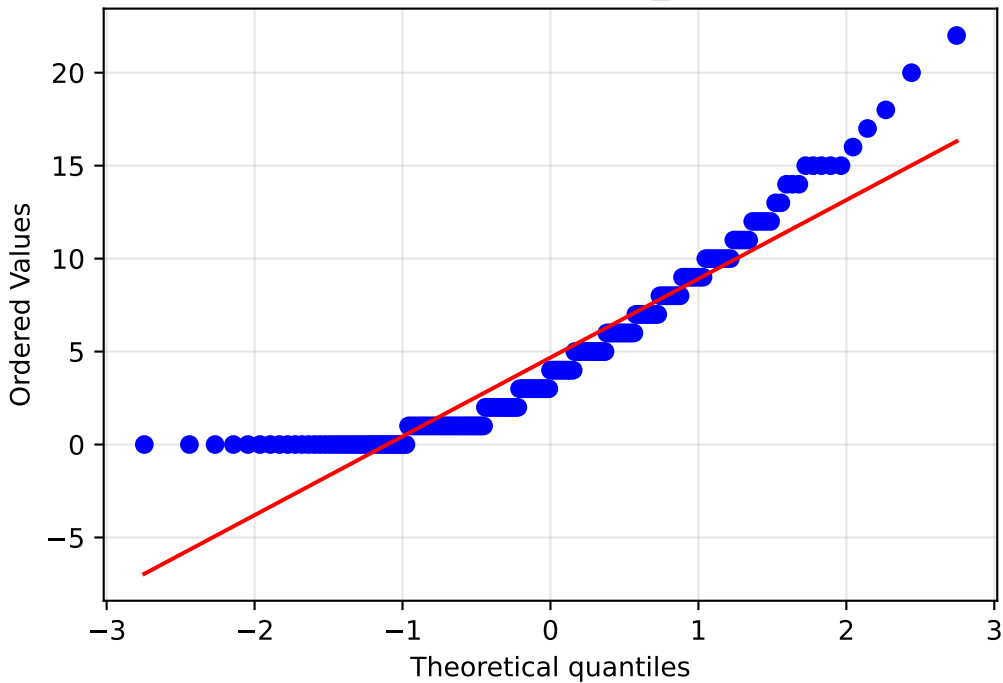
Statistical Results:

Mixed Linear Model Regression Results

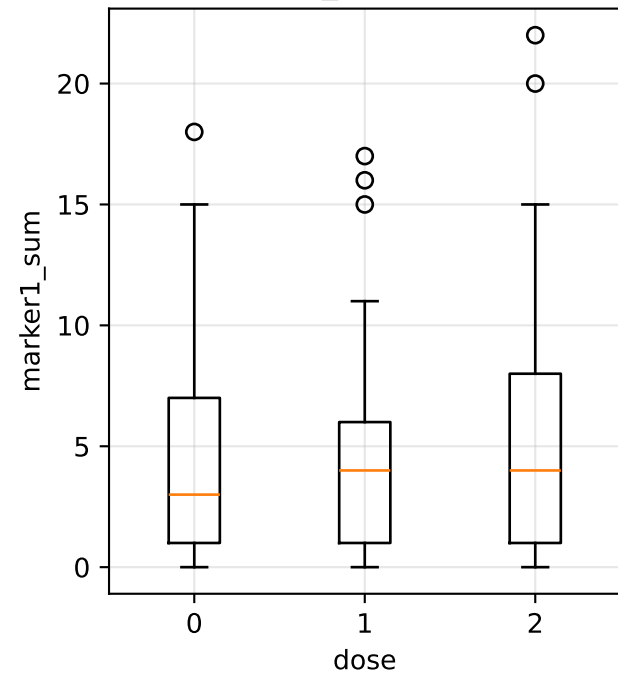
Model:	MixedLM	Dependent Variable:	marker1_sum
No. Observations:	229	Method:	REML
No. Groups:	50	Scale:	20.0732
Min. group size:	1	Log-Likelihood:	-665.9589
Max. group size:	7	Converged:	Yes
Mean group size:	4.6		

	Coef.	Std.Err.	z	P> z	[0.025	0.975]
Intercept	4.237	0.516	8.210	0.000	3.225	5.248
substance[T.B]	-0.100	0.609	-0.165	0.869	-1.294	1.093
sex[T.M]	0.721	0.613	1.176	0.240	-0.481	1.923
dose	0.165	0.364	0.453	0.651	-0.548	0.878
Group Var	0.000	0.262				

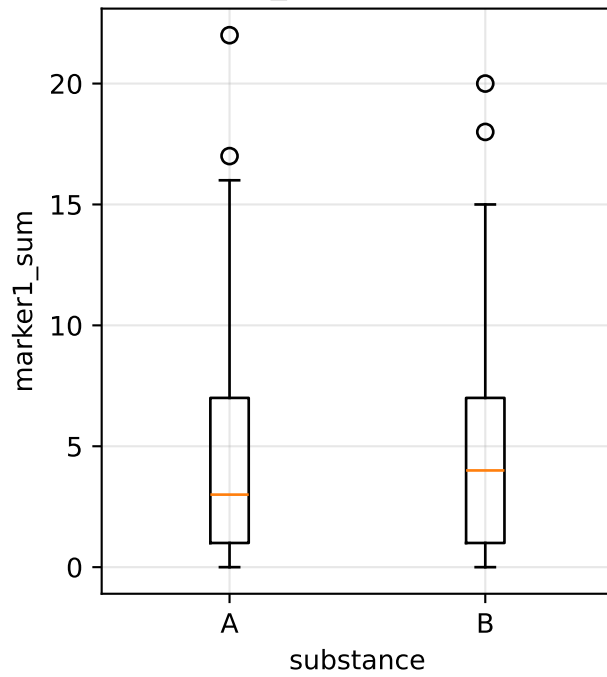
Q-Q Plot: marker1_sum



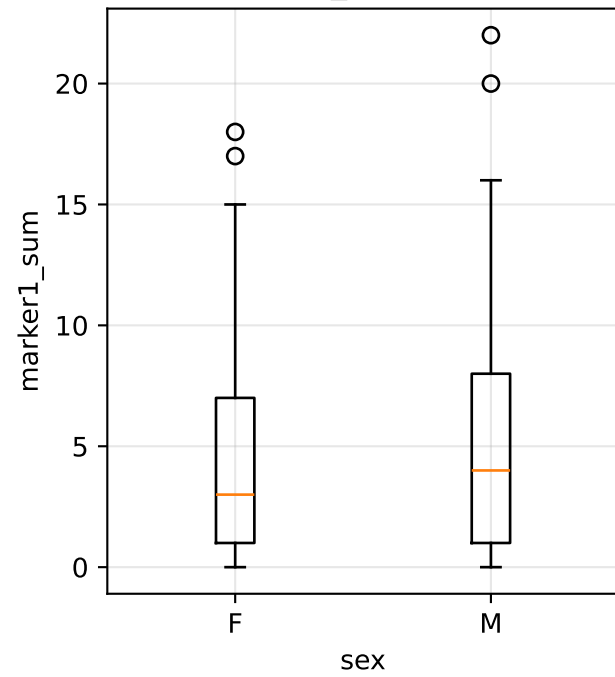
marker1_sum by dose



marker1_sum by substance

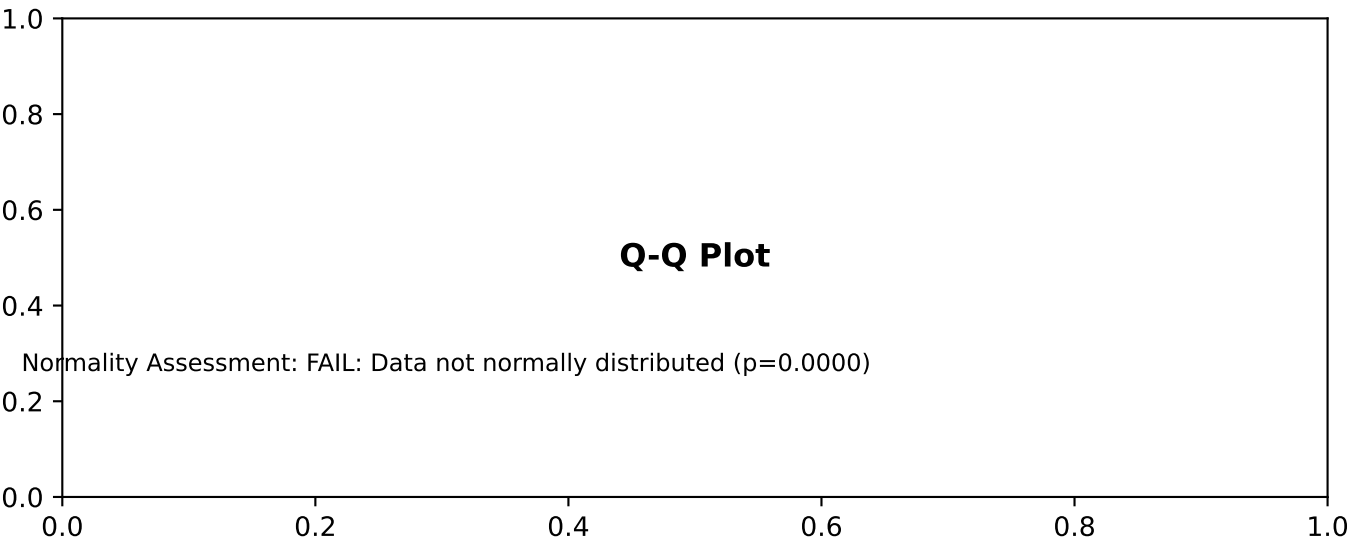


marker1_sum by sex



Analysis 2: marker1_avg_time

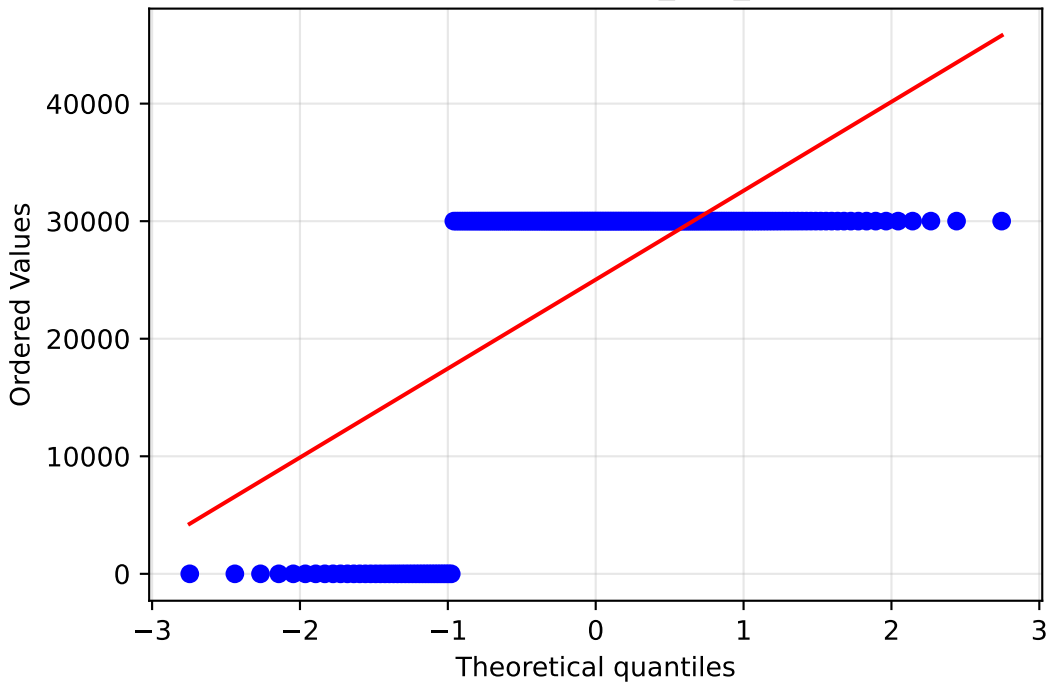
Animal ID: ID
Independent Variables: dose, substance, sex
Dependent Variable: marker1_avg_time



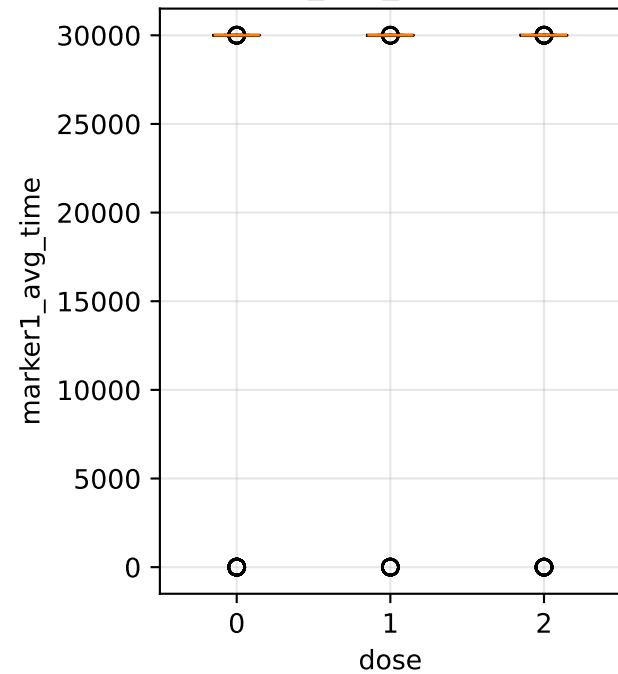
Statistical Results:

Mixed Linear Model Regression Results						
Model:	MixedLM	Dependent Variable: marker1_avg_time				
No. Observations:	229	Method: REML				
No. Groups:	50	Scale: 126435853.9818				
Min. group size:	1	Log-Likelihood: -2427.2432				
Max. group size:	7	Converged: Yes				
Mean group size:	4.6					
	Coef.	Std.Err.	z	P> z	[0.025	0.975]
Intercept	24247.276	1294.518	18.731	0.000	21710.067	26784.485
substance[T.B]	62.110	1526.256	0.041	0.968	-2929.297	3053.516
sex[T.M]	832.913	1540.033	0.541	0.589	-2185.497	3851.322
dose	413.165	918.342	0.450	0.653	-1386.751	2213.081
Group Var						

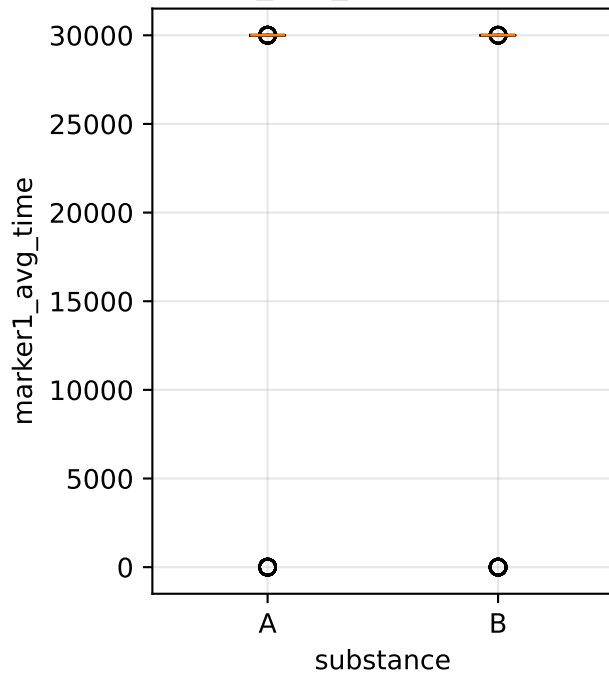
Q-Q Plot: marker1_avg_time



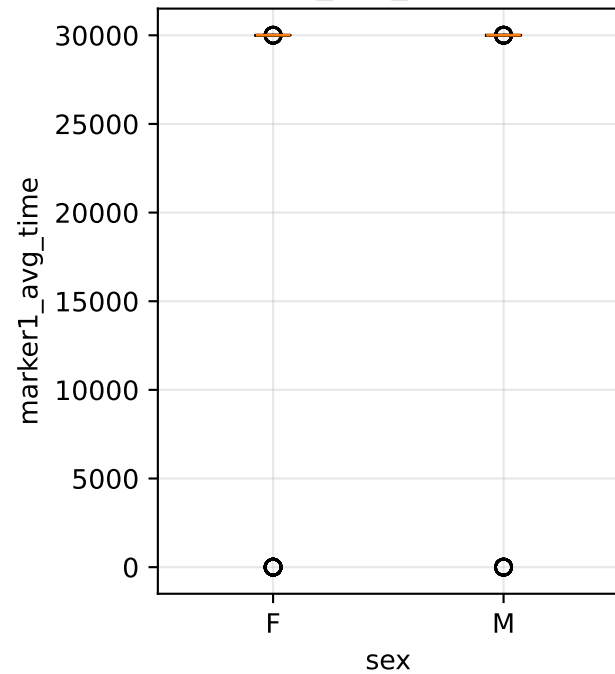
marker1_avg_time by dose



marker1_avg_time by substance

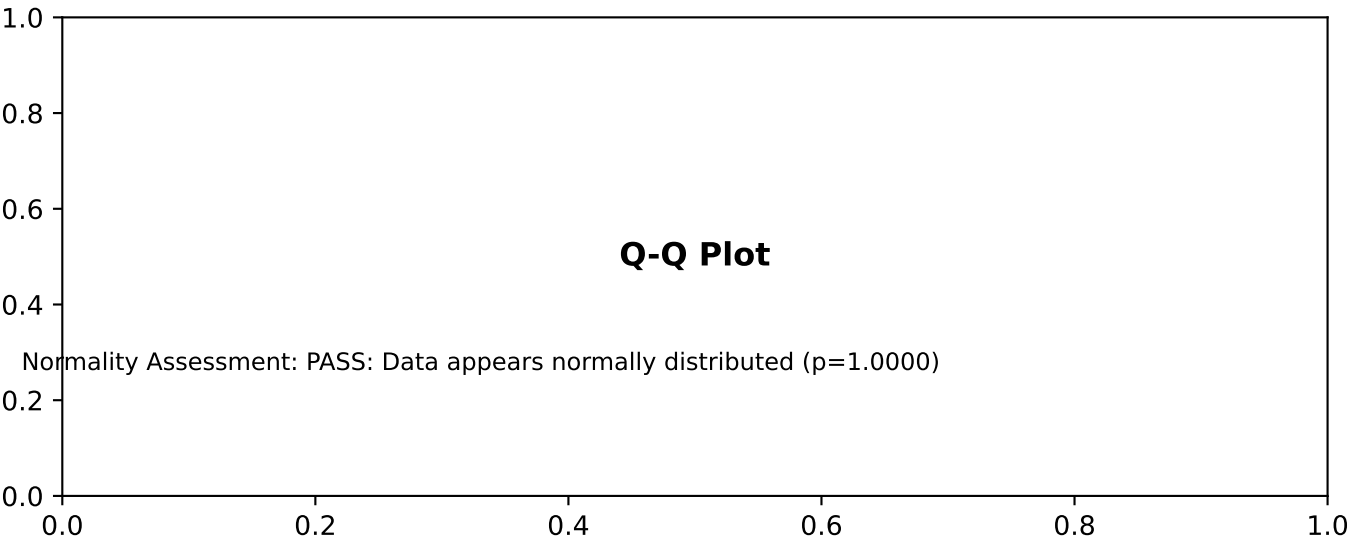


marker1_avg_time by sex



Analysis 3: marker3_sum

Animal ID: ID
Independent Variables: dose, substance, sex
Dependent Variable: marker3_sum



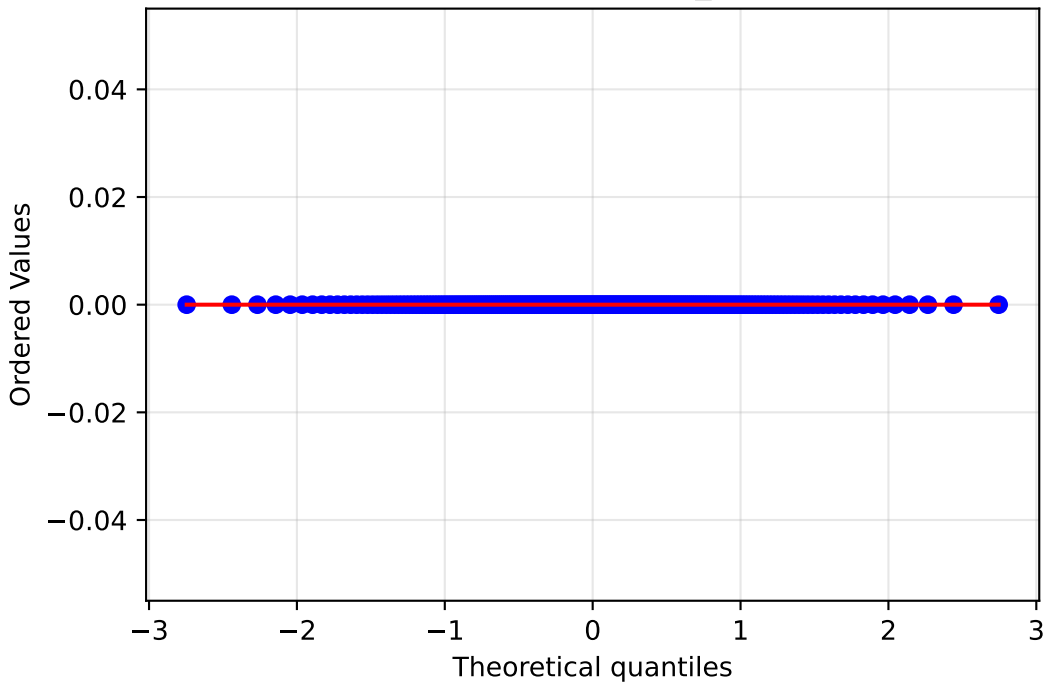
Statistical Results:

Mixed Linear Model Regression Results					
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Model:	MixedLM	Dependent Variable: marker3_sum			
No. Observations:	229	Method:	REML		
No. Groups:	50	Scale:	0.0000		
Min. group size:	1	Log-Likelihood:	inf		
Max. group size:	7	Converged:	No		
Mean group size:	4.6				

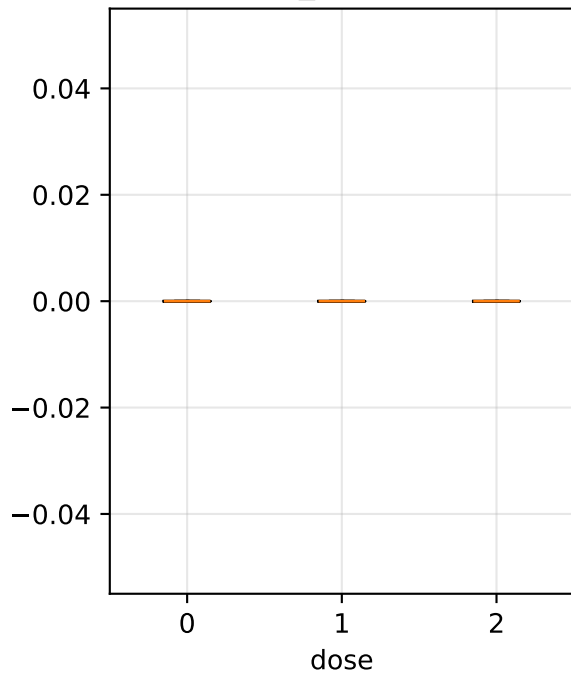
	Coef.	Std.Err.	z	P> z	[0.025 0.975]

Intercept	0.000				
substance[T.B]	0.000				
sex[T.M]	0.000				
dose	0.000				
Group Var	0.000				
=====					

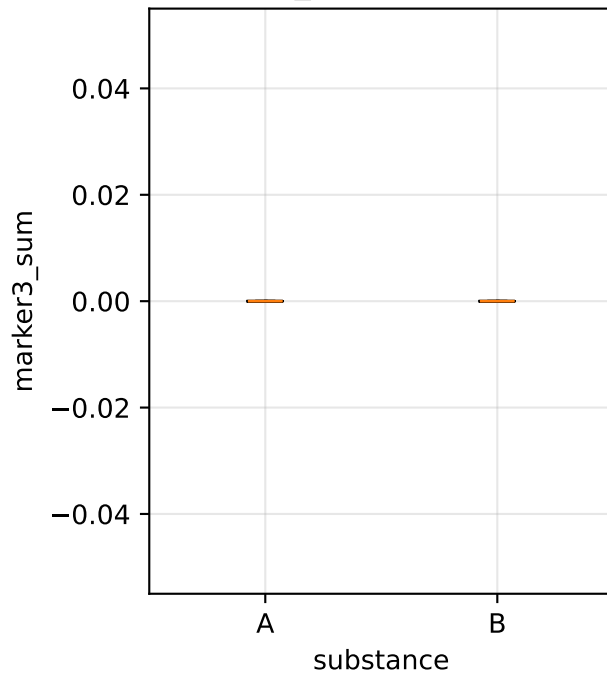
Q-Q Plot: marker3_sum



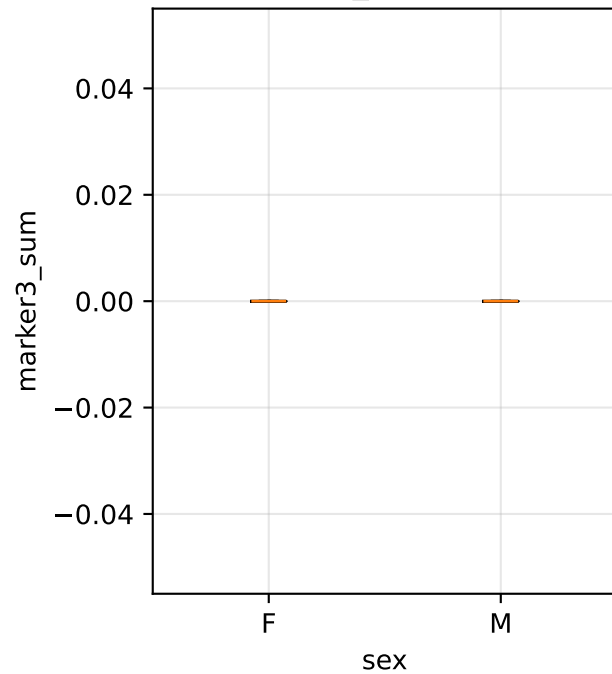
marker3_sum by dose



marker3_sum by substance

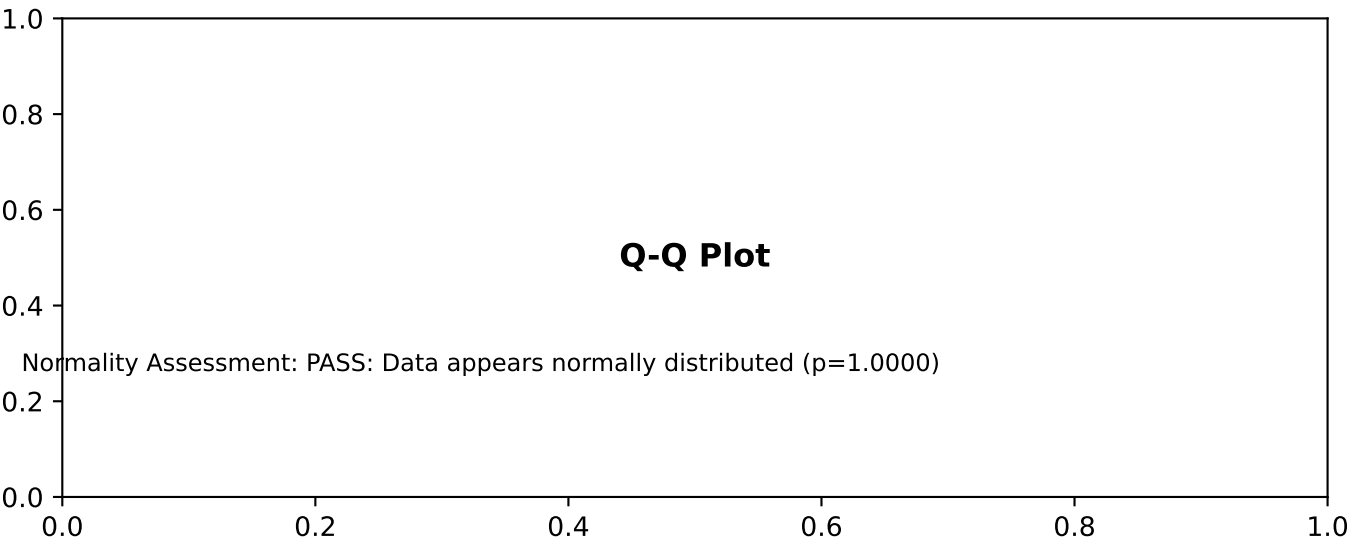


marker3_sum by sex



Analysis 4: marker3_avg_time

Animal ID: ID
Independent Variables: dose, substance, sex
Dependent Variable: marker3_avg_time



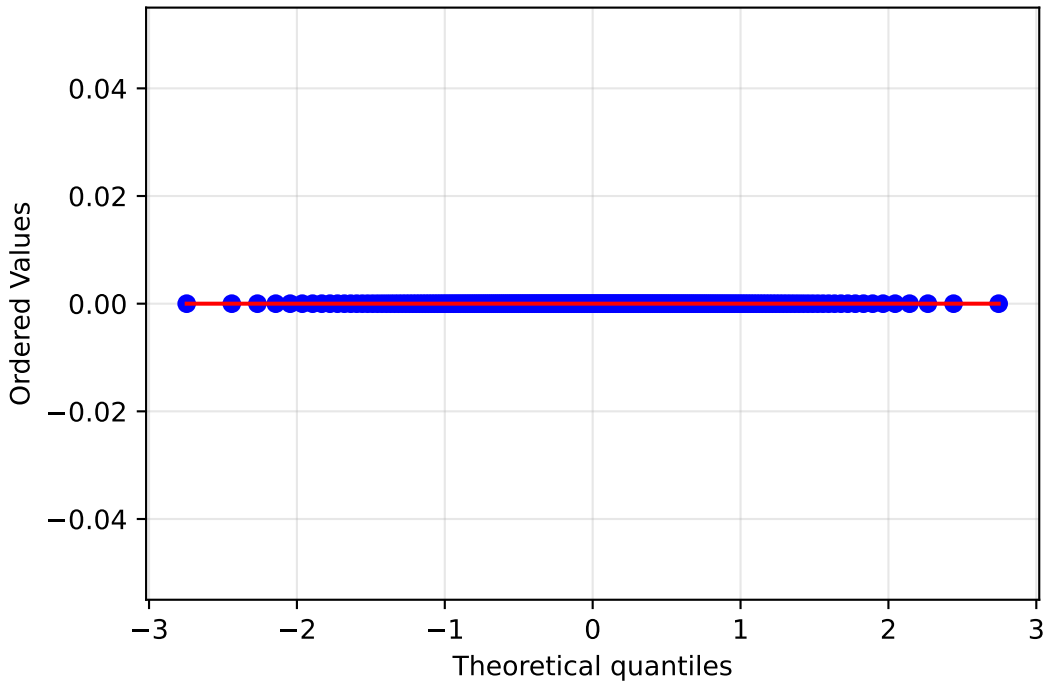
Statistical Results:

Mixed Linear Model Regression Results						
=====						
Model:	MixedLM	Dependent Variable: marker3_avg_time				
No. Observations:	229	Method:	REML			
No. Groups:	50	Scale:	0.0000			
Min. group size:	1	Log-Likelihood:	inf			
Max. group size:	7	Converged:	No			
Mean group size:	4.6					

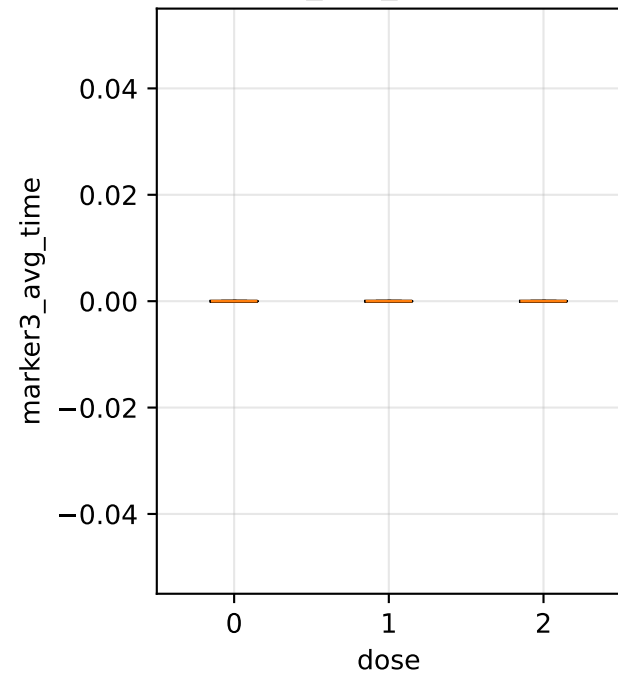
	Coef.	Std.Err.	z	P> z	[0.025	0.975]

Intercept	0.000					
substance[T.B]	0.000					
sex[T.M]	0.000					
dose	0.000					
Group Var	0.000					

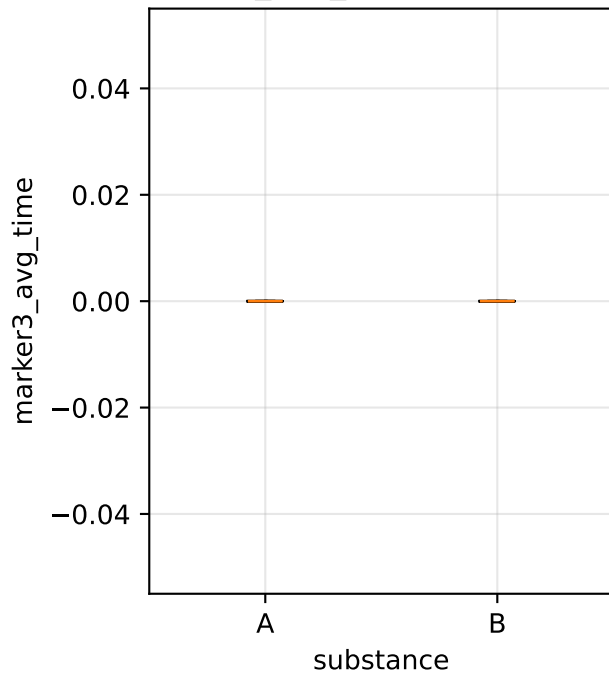
Q-Q Plot: marker3_avg_time



marker3_avg_time by dose



marker3_avg_time by substance



marker3_avg_time by sex

