

SOMA Report



SOMA Report Details

Generated by: Chad C. Williams

Date: 2024-12-03

Inputted Parameters

Help: False

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Dataset: Pain with depression dataset

Rscripts Path: C:/Program Files/R/R-4.4.1/bin/x64/Rscript

File Path: D:\BM_Carney_Petzschner_Lab\SOMAStudyTracking\SOMAV1\database_exports\avoid_learn_prolific

File Name: ['v1b_avoid_paindepression\v1b_avoid_paindepression.csv']

Split By Group: depression

Split By Group Id: depression

Covariate: None

Depression Cutoff: 10

Rolling Mean: 5

Accuracy Exclusion Threshold: 55

Rt Low Threshold: 200

Rt High Threshold: 5000

Tests: basic

Test Rolling Mean: 5

Test Context Type: context

Hide Stats: False

Hide Posthocts: False

Load Stats: True

Verbose: True

Data Characteristics

File: v1b_avoid_paindepression\v1b_avoid_paindepression.csv

Grouping

Split by Group: Depression

Column Names

participant_id, trial_type, trial_index, rt, symbol_L_name, symbol_R_name, feedback_L, feedback_R, context_val, choice_made, context_val_name, duration, group_code, PHQ8, intensity, unpleasant, interference, depression, age, sex, symbol_L_value, symbol_R_value, neutral_values

Data Dimensions

Rows: 55680

Columns: 23

Number of Groups: 2

Number of Original Participants: 122

Number of Participants Excluded (Accuracy Threshold: 55%): 6

Number of Participants Remaining: 116

Percentage of Trials Excluded (RT Threshold: < 200ms or > 5000ms): 1.93%

Table 1. Demographic information for each group.

	Healthy	Depressed	P-Value
Demographics			
Sample Size	84	32	
Age	35.55 (11.23)	32.62 (9.08)	0.1908
Gender (F/M/N)	58 / 26 / 0	25 / 6 / 1	
Pain Scores			
Intensity	15.8 (17.83)	36.11 (22.29)	<0.0001
Unpleasant	16.35 (20.38)	39.09 (25.59)	<0.0001
Interference	15.5 (20.46)	37.31 (27.03)	<0.0001
Depression Scores			
Phq8	3.7 (2.76)	13.81 (2.9)	<0.0001

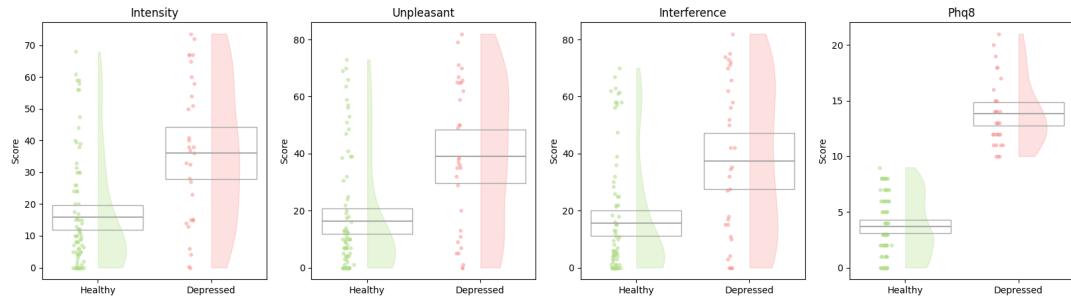


Figure 1. Pain and depression metrics for each group. Boxplots show the mean and 95% confidence intervals of the corresponding metric for each group. Half-violin plots show the distribution of the scores of the corresponding metric for each group. Scatter points show the scores of the corresponding metric for each participant within each group.

Demographics And Clinical Scores Statistics

Age, pain intensity, pain unpleasantness, pain interference, depression were modelled using linear regression with the following formula: $\text{metric} \sim \text{depression}$.

Age: $F(1, 114) = 1.73, p = 0.191$

Pain Intensity*: $F(1, 114) = 25.58, p < 0.001$

Pain Unpleasantness*: $F(1, 114) = 24.47, p < 0.001$

Pain Interference*: $F(1, 114) = 21.47, p < 0.001$

Depression*: $F(1, 114) = 297.89, p < 0.001$

Results

Learning Accuracy

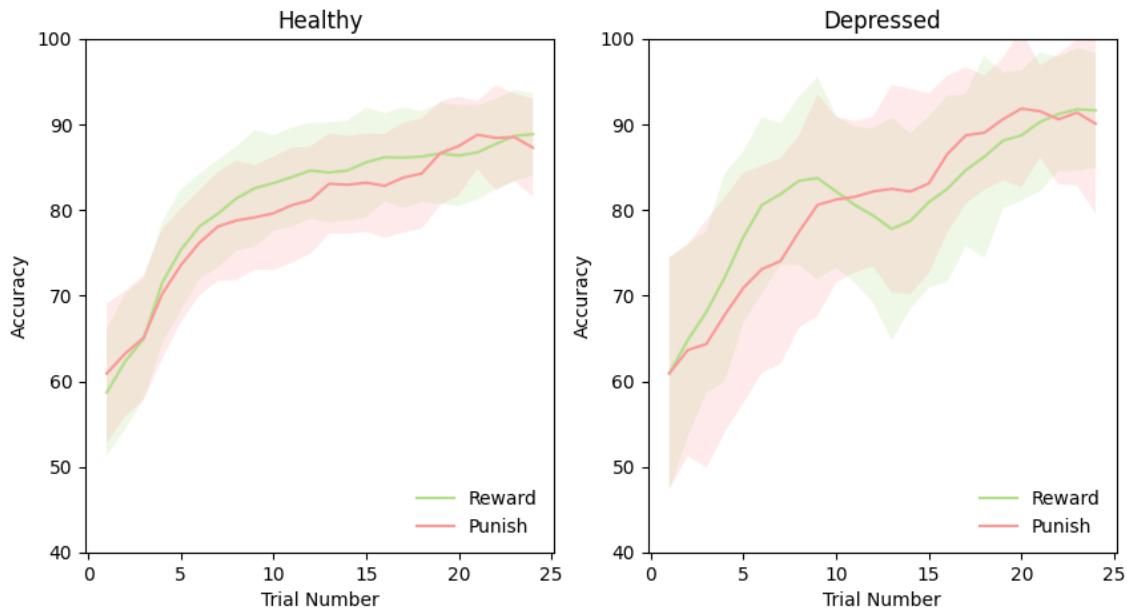


Figure 2. Behavioral performance across learning trials for the reward and punishment contexts for each group. For visualization, the accuracy is smoothed using a rolling mean of 5 trials. Shaded regions represent 95% confidence intervals.

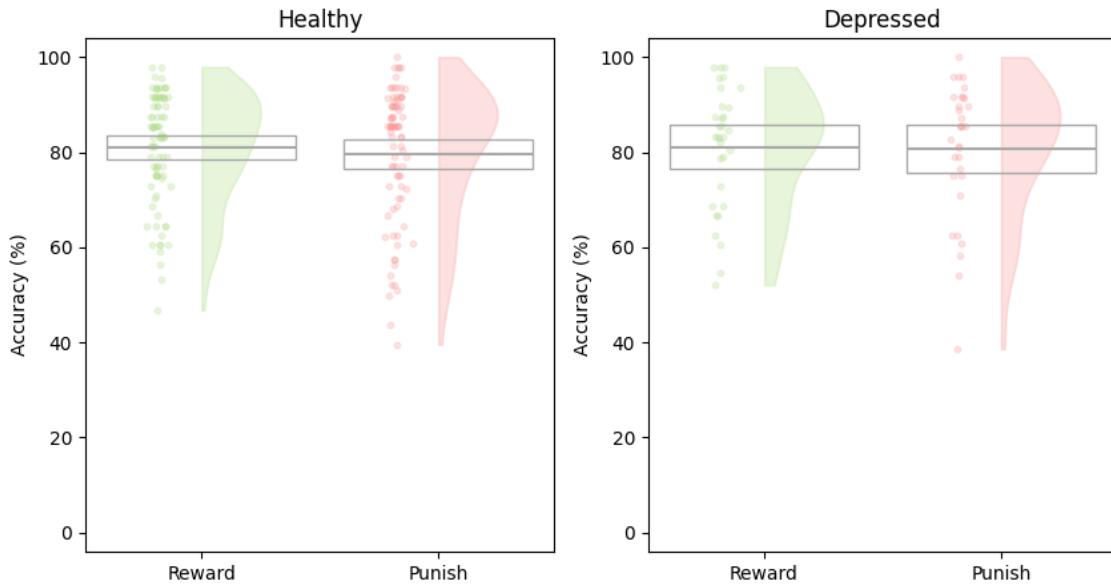


Figure 3. Averaged behavioral performance during learning for the reward and punishment contexts for each group. Boxplots show the mean and 95% confidence intervals of the accuracy for each context across participants within each group. Half-violin plots show the distribution of accuracy for each context across participants within each group. Scatter points show the averaged accuracy for each participant within each context.

Learning Accuracy Statistics

Accuracy in the learning phase was modelled using a linear mixed effects model with the following formula: $accuracy \sim 1 + depression:context:binned_trial + (1|participant_id)$, where *depression*, *context*, *binned_trial*, *depression:context:binned_trial* are the fixed effects and *participant_id* is the random effect. Following each main and interaction finding from the linear model, we report planned comparison t-tests, corrected using a Welch's t-test when the assumption of homogeneity of variance was violated. Further, Tukey HSD post-hoc comparisons can be found in Appendix A.

Depression: $\chi^2(1, N=116) = 0.23, p = 0.633$

Context: $\chi^2(1, N=116) = 0.56, p = 0.454$

Binned_Trial*: $\chi^2(3, N=116) = 351.65, p < 0.001$

Depression:Context: $\chi^2(1, N=116) = 0.55, p = 0.46$

Healthy Vs Depressed: Reward

$t(114) = -0.09, p = 0.9293, d = -0.02$.

Healthy Vs Depressed: Loss Avoid

$t(114) = -0.35, p = 0.7277, d = -0.07$.

Healthy Vs Depressed: Reward-Loss Avoid

$t(114) = 0.24, p = 0.8129, d = 0.05$.

Depression:Binned_Trial: $\chi^2(3, N=116) = 5.61, p = 0.132$

Context:Binned_Trial: $\chi^2(3, N=116) = 2.38, p = 0.497$

Depression:Context:Binned_Trial: $\chi^2(3, N=116) = 5.24, p = 0.155$

Learning Reaction Time

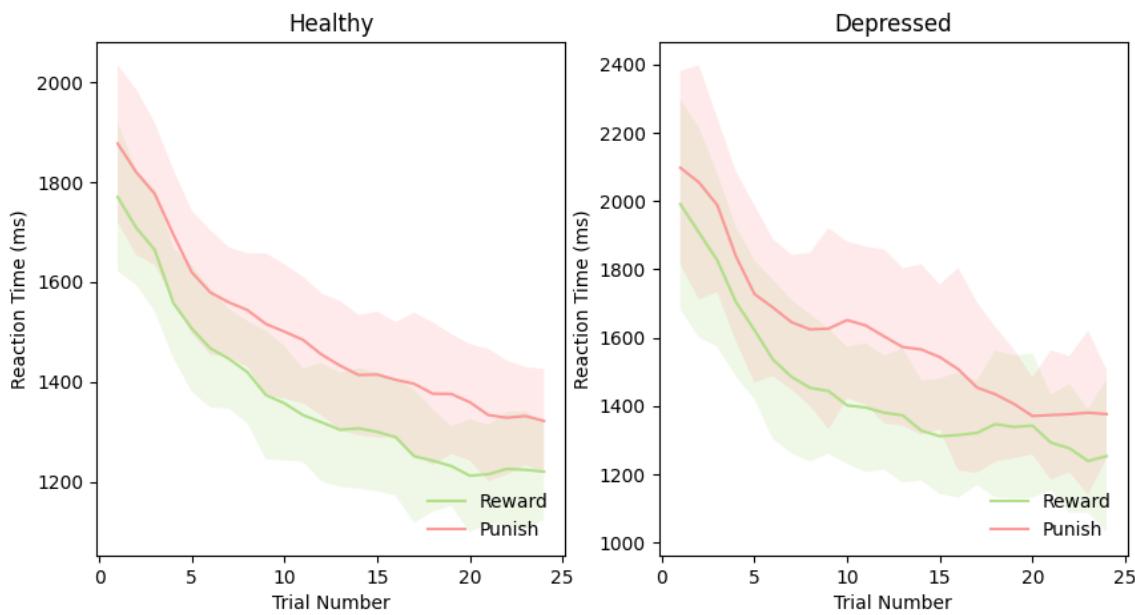


Figure 4. Reaction times across learning trials for the reward and punishment contexts for each group. For visualization, the reaction time is smoothed using a rolling mean of 5 trials. Shaded regions represent 95% confidence intervals.

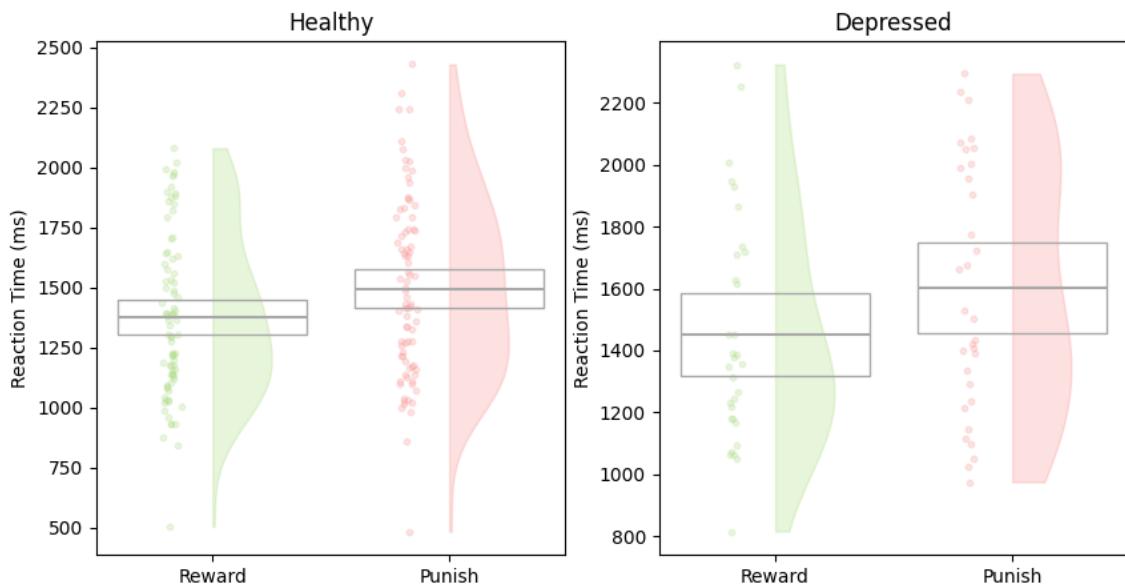


Figure 5. Averaged behavioral performance during learning for the reward and punishment contexts for each group. Boxplots show the mean and 95% confidence intervals of the reaction times for each context across participants within each group. Half-violin plots show the distribution of reaction times for each context across participants within each group. Scatter points show the averaged reaction times for each participant within each context.

Learning Rt Statistics

Rt in the learning phase was modelled using a linear mixed effects model with the following formula: $rt \sim 1 + depression:context:binned_trial + (1|participant_id)$, where *depression*, *context*, *binned_trial*, *depression:context:binned_trial* are the fixed effects and *participant_id* is the random effect. Following each main and interaction finding from the linear model, we report planned comparison t-tests, corrected using a Welch's t-test when the assumption of homogeneity of variance was violated. Further, Tukey HSD post-hoc comparisons can be found in Appendix A.

Depression: $\chi^2(1, N=116) = 1.05, p = 0.306$

Context*: $\chi^2(1, N=116) = 140.89, p < 0.001$

Binned_Trial*: $\chi^2(3, N=116) = 852.75, p < 0.001$

Depression:Context: $\chi^2(1, N=116) = 0.26, p = 0.613$

Healthy Vs Depressed: Reward

$t(114) = -1.04, p = 0.3014, d = -0.22$.

Healthy Vs Depressed: Loss Avoid

$t(114) = -1.34, p = 0.1826, d = -0.28$.

Healthy Vs Depressed: Reward-Loss Avoid

$t(114) = 0.78, p = 0.437, d = 0.16$.

Depression:Binned_Trial: $\chi^2(3, N=116) = 1.74, p = 0.627$

Context:Binned_Trial*: $\chi^2(3, N=116) = 11.81, p = 0.008$

Depression:Context:Binned_Trial: $\chi^2(3, N=116) = 4.61, p = 0.203$

Choice Rate

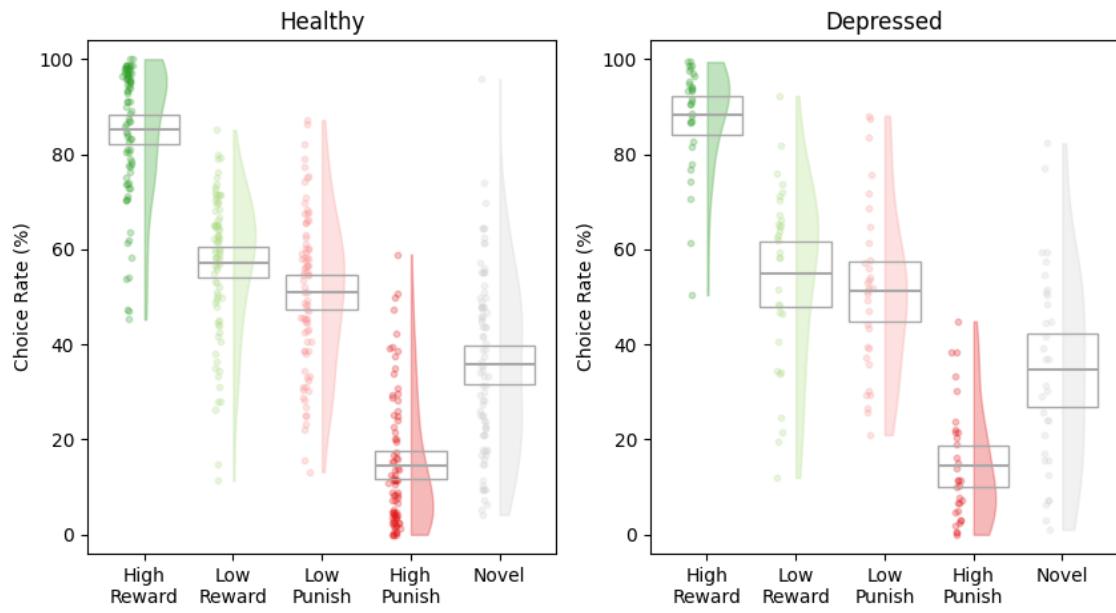


Figure 6. Choice rate for each symbol during transfer trials for each group. Choice rate is computed as the percentage of times a symbol was chosen given the number of times it was presented. Boxplots show the mean and 95% confidence intervals of the choice rate for each symbol type across participants within each group. Half-violin plots show the distribution of choice rates for each symbol type across participants within each group. Scatter points show the averaged choice rate for each participant within each symbol type.

Transfer Choice Rate Statistics

Accuracy in the transfer phase was modelled using a linear mixed effects model with the following formula: $accuracy \sim 1 + depression:paired_symbols + (1|participant_id)$, where *depression*, *paired_symbols*, *depression:paired_symbols* are the fixed effects and *participant_id* is the random effect. Following each main and interaction finding from the linear model, we report planned comparison t-tests, corrected using a Welch's t-test when the assumption of homogeneity of variance was violated. Further, Tukey HSD post-hoc comparisons can be found in Appendix A.

Depression: $\chi^2(1, N=116) = 0.94, p = 0.332$

Paired_Symbols*: $\chi^2(9, N=116) = 5530.26, p < 0.001$

High Reward Vs Low Punish

$t(115) = 15.75, p < 0.0001^*, d = 1.46.$

Low Reward Vs Low Punish

$t(115) = 2.04, p = 0.044^*, d = 0.19.$

Depression:Paired_Symbols*: $\chi^2(9, N=116) = 41.59, p < 0.001$

Healthy Vs Depressed: High Reward-Low Punish

$t(114) = 0.56, p = 0.5751, d = 0.12.$

Healthy Vs Depressed: Low Reward-Low Punish

$t(114) = 0.41, p = 0.6835, d = 0.08.$

Transfer Reaction Time

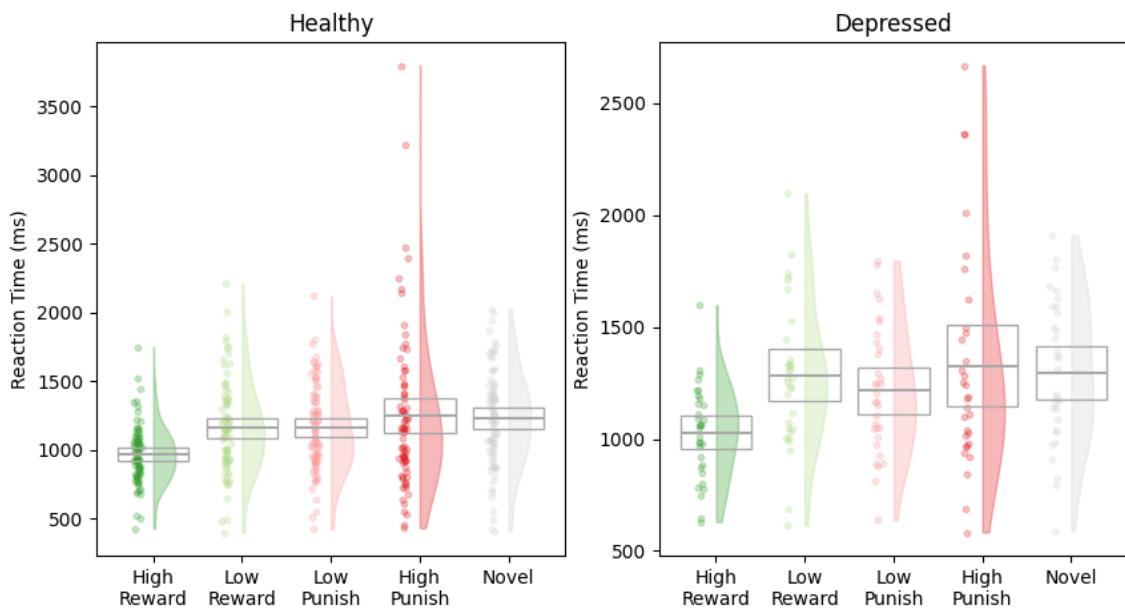


Figure 7. Reaction times for each symbol during transfer trials for each group. Boxplots show the mean and 95% confidence intervals of the reaction times for each symbol type across participants within each group. Half-violin plots show the distribution of reaction times for each symbol type across participants within each group. Scatter points show the averaged reaction time for each participant within each symbol type.

Transfer Rt Statistics

Rt in the transfer phase was modelled using a linear mixed effects model with the following formula: $rt \sim 1 + depression:paired_symbols + (1|participant_id)$, where *depression*, *paired_symbols*, *depression:paired_symbols* are the fixed effects and *participant_id* is the random effect. Following each main and interaction finding from the linear model, we report planned comparison t-tests, corrected using a Welch's t-test when the assumption of homogeneity of variance was violated. Further, Tukey HSD post-hoc comparisons can be found in Appendix A.

Depression: $\chi^2(1, N=116) = 1.97, p = 0.16$

Paired_Symbols*: $\chi^2(9, N=116) = 2061.65, p < 0.001$

High Reward Vs Low Punish

$t(115) = -10.1, p < 0.0001^*, d = -0.94.$

Low Reward Vs Low Punish

$t(115) = 0.78, p = 0.4364, d = 0.07.$

Depression:Paired_Symbols: $\chi^2(9, N=116) = 14.8, p = 0.097$

Healthy Vs Depressed: High Reward-Low Punish

$t(114) = 0.2, p = 0.8409, d = 0.04.$

Healthy Vs Depressed: Low Reward-Low Punish

$t(114) = -1.45, p = 0.1502, d = -0.3.$

Appendix A

Appendix A contains a collection of all possible post-hoc comparisons. Some of these are the same as the planned comparisons and should be ignored. In addition, many of these comparisons are not meaningful, but we included them for completeness.

Post-Hoc Comparisons: Group Comparisons

Learning Accuracy

Table 2.

factor	Meandiff	P-Adj	Reject
Depressed Vs Healthy	-0.672700	0.753100	False

Learning Reaction Time

Table 3.

factor	Meandiff	P-Adj	Reject
Depressed Vs Healthy	0.000100	0.266100	False

Transfer Accuracy

Table 4.

factor	Meandiff	P-Adj	Reject
Depressed Vs Healthy	-1.223300	0.593700	False

Transfer Reaction Time

Table 5.

factor	Meandiff	P-Adj	Reject
Depressed Vs Healthy	0.000100	0.383900	False

Post-Hoc Comparisons: Context Comparisons

Transfer Accuracy

Table 6.

factor	Meandiff	P-Adj	Reject
High Punish Vs High Reward	71.459700	0.000000	True
High Punish Vs Low Punish	36.463600	0.000000	True
High Punish Vs Low Reward	41.968000	0.000000	True
High Punish Vs Novel	20.840000	0.000000	True
High Reward Vs Low Punish	-34.996100	0.000000	True
High Reward Vs Low Reward	-29.491700	0.000000	True
High Reward Vs Novel	-50.619700	0.000000	True
Low Punish Vs Low Reward	5.504500	0.066300	False
Low Punish Vs Novel	-15.623600	0.000000	True
Low Reward Vs Novel	-21.128100	0.000000	True

Transfer Reaction Time

Table 7.

factor	Meandiff	P-Adj	Reject
High Punish Vs High Reward	-283.664900	0.000000	True
High Punish Vs Low Punish	-90.160700	0.341900	False
High Punish Vs Low Reward	-73.277200	0.556800	False
High Punish Vs Novel	-21.839600	0.991500	False
High Reward Vs Low Punish	193.504200	0.000600	True
High Reward Vs Low Reward	210.387700	0.000100	True
High Reward Vs Novel	261.825300	0.000000	True
Low Punish Vs Low Reward	16.883500	0.996700	False
Low Punish Vs Novel	68.321100	0.613000	False
Low Reward Vs Novel	51.437600	0.821200	False

Post-Hoc Comparisons: Trial Comparisons

Learning Accuracy

Table 8.

factor	Meandiff	P-Adj	Reject
Early Vs Late	20.812100	0.000000	True
Early Vs Mid-Early	13.568000	0.000000	True
Early Vs Mid-Late	16.435200	0.000000	True
Late Vs Mid-Early	-7.244100	0.000300	True
Late Vs Mid-Late	-4.377000	0.067200	False
Mid-Early Vs Mid-Late	2.867200	0.372000	False

Learning Reaction Time

Table 9.

factor	Meandiff	P-Adj	Reject
Early Vs Late	0.000200	0.000000	True
Early Vs Mid-Early	0.000100	0.002100	True
Early Vs Mid-Late	0.000200	0.000000	True
Late Vs Mid-Early	-0.000100	0.010000	True
Late Vs Mid-Late	-0.000000	0.591600	False
Mid-Early Vs Mid-Late	0.000100	0.240200	False

Post-Hoc Comparisons: Interaction Comparisons

Learning Accuracy: Group x Context

Table 10.

factor	Meandiff	P-Adj	Reject
Depressed & Loss Avoid Vs Depressed & Reward	0.433000	0.999200	False
Depressed & Loss Avoid Vs Healthy & Loss Avoid	-1.031300	0.981700	False
Depressed & Loss Avoid Vs Healthy & Reward	0.211300	0.999800	False
Depressed & Reward Vs Healthy & Loss Avoid	-1.464300	0.950300	False
Depressed & Reward Vs Healthy & Reward	-0.221700	0.999800	False
Healthy & Loss Avoid Vs Healthy & Reward	1.242600	0.928200	False

Learning Accuracy: Group x Trial

Table 11.

factor	Meandiff	P-Adj	Reject
Depressed & Early Vs Depressed & Late	22.527600	0.000000	True
Depressed & Early Vs Depressed & Mid-Early	13.597300	0.001800	True
Depressed & Early Vs Depressed & Mid-Late	14.847500	0.000400	True
Depressed & Early Vs Healthy & Early	-0.548900	1.000000	False
Depressed & Early Vs Healthy & Late	19.609700	0.000000	True
Depressed & Early Vs Healthy & Mid-Early	13.008000	0.000100	True
Depressed & Early Vs Healthy & Mid-Late	16.491100	0.000000	True
Depressed & Late Vs Depressed & Mid-Early	-8.930300	0.147100	False
Depressed & Late Vs Depressed & Mid-Late	-7.680200	0.316100	False
Depressed & Late Vs Healthy & Early	-23.076500	0.000000	True
Depressed & Late Vs Healthy & Late	-2.917900	0.968900	False
Depressed & Late Vs Healthy & Mid-Early	-9.519700	0.018000	True
Depressed & Late Vs Healthy & Mid-Late	-6.036500	0.390000	False
Depressed & Mid-Early Vs Depressed & Mid-Late	1.250200	1.000000	False
Depressed & Mid-Early Vs Healthy & Early	-14.146200	0.000000	True
Depressed & Mid-Early Vs Healthy & Late	6.012400	0.395400	False
Depressed & Mid-Early Vs Healthy & Mid-Early	-0.589300	1.000000	False
Depressed & Mid-Early Vs Healthy & Mid-Late	2.893800	0.970300	False
Depressed & Mid-Late Vs Healthy & Early	-15.396300	0.000000	True
Depressed & Mid-Late Vs Healthy & Late	4.762300	0.694300	False
Depressed & Mid-Late Vs Healthy & Mid-Early	-1.839500	0.998100	False
Depressed & Mid-Late Vs Healthy & Mid-Late	1.643700	0.999100	False
Healthy & Early Vs Healthy & Late	20.158600	0.000000	True
Healthy & Early Vs Healthy & Mid-Early	13.556900	0.000000	True
Healthy & Early Vs Healthy & Mid-Late	17.040000	0.000000	True
Healthy & Late Vs Healthy & Mid-Early	-6.601800	0.036400	True
Healthy & Late Vs Healthy & Mid-Late	-3.118600	0.813000	False
Healthy & Mid-Early Vs Healthy & Mid-Late	3.483200	0.710900	False

Learning Accuracy: Context x Trial

Table 12.

factor	Meandiff	P-Adj	Reject
Loss Avoid & Early Vs Loss Avoid & Late	21.698000	0.000000	True
Loss Avoid & Early Vs Loss Avoid & Mid-Early	12.513100	0.000000	True
Loss Avoid & Early Vs Loss Avoid & Mid-Late	16.179200	0.000000	True
Loss Avoid & Early Vs Reward & Early	0.853400	1.000000	False
Loss Avoid & Early Vs Reward & Late	20.778500	0.000000	True
Loss Avoid & Early Vs Reward & Mid-Early	15.457200	0.000000	True
Loss Avoid & Early Vs Reward & Mid-Late	17.470400	0.000000	True
Loss Avoid & Late Vs Loss Avoid & Mid-Early	-9.185000	0.002700	True
Loss Avoid & Late Vs Loss Avoid & Mid-Late	-5.518800	0.275600	False
Loss Avoid & Late Vs Reward & Early	-20.844700	0.000000	True
Loss Avoid & Late Vs Reward & Late	-0.919500	0.999900	False
Loss Avoid & Late Vs Reward & Mid-Early	-6.240900	0.142900	False
Loss Avoid & Late Vs Reward & Mid-Late	-4.227600	0.628000	False
Loss Avoid & Mid-Early Vs Loss Avoid & Mid-Late	3.666200	0.779200	False
Loss Avoid & Mid-Early Vs Reward & Early	-11.659700	0.000000	True
Loss Avoid & Mid-Early Vs Reward & Late	8.265400	0.011500	True
Loss Avoid & Mid-Early Vs Reward & Mid-Early	2.944100	0.917900	False
Loss Avoid & Mid-Early Vs Reward & Mid-Late	4.957300	0.417300	False
Loss Avoid & Mid-Late Vs Reward & Early	-15.325900	0.000000	True
Loss Avoid & Mid-Late Vs Reward & Late	4.599200	0.519400	False
Loss Avoid & Mid-Late Vs Reward & Mid-Early	-0.722100	1.000000	False
Loss Avoid & Mid-Late Vs Reward & Mid-Late	1.291100	0.999400	False
Reward & Early Vs Reward & Late	19.925100	0.000000	True
Reward & Early Vs Reward & Mid-Early	14.603800	0.000000	True
Reward & Early Vs Reward & Mid-Late	16.617000	0.000000	True
Reward & Late Vs Reward & Mid-Early	-5.321300	0.322100	False
Reward & Late Vs Reward & Mid-Late	-3.308100	0.857500	False
Reward & Mid-Early Vs Reward & Mid-Late	2.013200	0.989900	False

Learning Accuracy: Group x Context x Trial

Table 13.

factor	Meandiff	P-Adj	Reject
Depressed & Loss Avoid & Early Vs Depressed & Loss Avoid & Late	24.299200	0.000000	True
Depressed & Loss Avoid & Early Vs Depressed & Loss Avoid & Mid-Early	14.498100	0.096900	False
Depressed & Loss Avoid & Early Vs Depressed & Loss Avoid & Mid-Late	18.147900	0.006200	True
Depressed & Loss Avoid & Early Vs Depressed & Reward & Early	3.363300	1.000000	False
Depressed & Loss Avoid & Early Vs Depressed & Reward & Late	24.133500	0.000000	True
Depressed & Loss Avoid & Early Vs Depressed & Reward & Mid-Early	16.197900	0.030100	True
Depressed & Loss Avoid & Early Vs Depressed & Reward & Mid-Late	14.876900	0.076000	False
Depressed & Loss Avoid & Early Vs Healthy & Loss Avoid & Early	1.218200	1.000000	False
Depressed & Loss Avoid & Early Vs Healthy & Loss Avoid & Late	21.925300	0.000000	True
Depressed & Loss Avoid & Early Vs Healthy & Loss Avoid & Mid-Early	12.975100	0.046000	True
Depressed & Loss Avoid & Early Vs Healthy & Loss Avoid & Mid-Late	16.647500	0.001100	True
Depressed & Loss Avoid & Early Vs Healthy & Reward & Early	1.115400	1.000000	False
Depressed & Loss Avoid & Early Vs Healthy & Reward & Late	20.718600	0.000000	True
Depressed & Loss Avoid & Early Vs Healthy & Reward & Mid-Early	16.393200	0.001500	True
Depressed & Loss Avoid & Early Vs Healthy & Reward & Mid-Late	19.676600	0.000000	True
Depressed & Loss Avoid & Late Vs Depressed & Loss Avoid & Mid-Early	-9.801100	0.716100	False
Depressed & Loss Avoid & Late Vs Depressed & Loss Avoid & Mid-Late	-6.151400	0.993200	False
Depressed & Loss Avoid & Late Vs Depressed & Reward & Early	-20.935900	0.000400	True
Depressed & Loss Avoid & Late Vs Depressed & Reward & Late	-0.165700	1.000000	False
Depressed & Loss Avoid & Late Vs Depressed & Reward & Mid-Early	-8.101300	0.917600	False
Depressed & Loss Avoid & Late Vs Depressed & Reward & Mid-Late	-9.422300	0.772000	False
Depressed & Loss Avoid & Late Vs Healthy & Loss Avoid & Early	-23.081000	0.000000	True
Depressed & Loss Avoid & Late Vs Healthy & Loss Avoid & Late	-2.374000	1.000000	False
Depressed & Loss Avoid & Late Vs Healthy & Loss Avoid & Mid-Early	-11.324200	0.162000	False
Depressed & Loss Avoid & Late Vs Healthy & Loss Avoid & Mid-Late	-7.651700	0.801100	False
Depressed & Loss Avoid & Late Vs Healthy & Reward & Early	-23.183800	0.000000	True
Depressed & Loss Avoid & Late Vs Healthy & Reward & Late	-3.580700	0.999900	False
Depressed & Loss Avoid & Late Vs Healthy & Reward & Mid-Early	-7.906100	0.758900	False
Depressed & Loss Avoid & Late Vs Healthy & Reward & Mid-Late	-4.622600	0.997700	False
Depressed & Loss Avoid & Mid-Early Vs Depressed & Loss Avoid & Mid-Late	3.649800	1.000000	False

factor	Meandiff	P-Adj	Reject
Depressed & Loss Avoid & Mid-Early Vs Depressed & Reward & Early	-11.134800	0.496000	False
Depressed & Loss Avoid & Mid-Early Vs Depressed & Reward & Late	9.635400	0.741200	False
Depressed & Loss Avoid & Mid-Early Vs Depressed & Reward & Mid-Early	1.699800	1.000000	False
Depressed & Loss Avoid & Mid-Early Vs Depressed & Reward & Mid-Late	0.378800	1.000000	False
Depressed & Loss Avoid & Mid-Early Vs Healthy & Loss Avoid & Early	-13.279900	0.035400	True
Depressed & Loss Avoid & Mid-Early Vs Healthy & Loss Avoid & Late	7.427200	0.835100	False
Depressed & Loss Avoid & Mid-Early Vs Healthy & Loss Avoid & Mid-Early	-1.523000	1.000000	False
Depressed & Loss Avoid & Mid-Early Vs Healthy & Loss Avoid & Mid-Late	2.149400	1.000000	False
Depressed & Loss Avoid & Mid-Early Vs Healthy & Reward & Early	-13.382700	0.032300	True
Depressed & Loss Avoid & Mid-Early Vs Healthy & Reward & Late	6.220500	0.956400	False
Depressed & Loss Avoid & Mid-Early Vs Healthy & Reward & Mid-Early	1.895100	1.000000	False
Depressed & Loss Avoid & Mid-Early Vs Healthy & Reward & Mid-Late	5.178500	0.992200	False
Depressed & Loss Avoid & Mid-Late Vs Depressed & Reward & Early	-14.784600	0.080700	False
Depressed & Loss Avoid & Mid-Late Vs Depressed & Reward & Late	5.985600	0.994900	False
Depressed & Loss Avoid & Mid-Late Vs Depressed & Reward & Mid-Early	-1.950000	1.000000	False
Depressed & Loss Avoid & Mid-Late Vs Depressed & Reward & Mid-Late	-3.271000	1.000000	False
Depressed & Loss Avoid & Mid-Late Vs Healthy & Loss Avoid & Early	-16.929700	0.000800	True
Depressed & Loss Avoid & Mid-Late Vs Healthy & Loss Avoid & Late	3.777400	0.999800	False
Depressed & Loss Avoid & Mid-Late Vs Healthy & Loss Avoid & Mid-Early	-5.172800	0.992300	False
Depressed & Loss Avoid & Mid-Late Vs Healthy & Loss Avoid & Mid-Late	-1.500400	1.000000	False
Depressed & Loss Avoid & Mid-Late Vs Healthy & Reward & Early	-17.032500	0.000700	True
Depressed & Loss Avoid & Mid-Late Vs Healthy & Reward & Late	2.570700	1.000000	False
Depressed & Loss Avoid & Mid-Late Vs Healthy & Reward & Mid-Early	-1.754700	1.000000	False
Depressed & Loss Avoid & Mid-Late Vs Healthy & Reward & Mid-Late	1.528700	1.000000	False
Depressed & Reward & Early Vs Depressed & Reward & Late	20.770200	0.000500	True
Depressed & Reward & Early Vs Depressed & Reward & Mid-Early	12.834600	0.245400	False
Depressed & Reward & Early Vs Depressed & Reward & Mid-Late	11.513600	0.433800	False
Depressed & Reward & Early Vs Healthy & Loss Avoid & Early	-2.145100	1.000000	False
Depressed & Reward & Early Vs Healthy & Loss Avoid & Late	18.562000	0.000100	True
Depressed & Reward & Early Vs Healthy & Loss Avoid & Mid-Early	9.611700	0.425100	False

factor	Meandiff	P-Adj	Reject
Depressed & Reward & Early Vs Healthy & Loss Avoid & Mid-Late	13.284200	0.035200	True
Depressed & Reward & Early Vs Healthy & Reward & Early	-2.247900	1.000000	False
Depressed & Reward & Early Vs Healthy & Reward & Late	17.355200	0.000500	True
Depressed & Reward & Early Vs Healthy & Reward & Mid-Early	13.029900	0.043900	True
Depressed & Reward & Early Vs Healthy & Reward & Mid-Late	16.313300	0.001600	True
Depressed & Reward & Late Vs Depressed & Reward & Mid-Early	-7.935600	0.929800	False
Depressed & Reward & Late Vs Depressed & Reward & Mid-Late	-9.256600	0.794700	False
Depressed & Reward & Late Vs Healthy & Loss Avoid & Early	-22.915300	0.000000	True
Depressed & Reward & Late Vs Healthy & Loss Avoid & Late	-2.208200	1.000000	False
Depressed & Reward & Late Vs Healthy & Loss Avoid & Mid-Early	-11.158500	0.180700	False
Depressed & Reward & Late Vs Healthy & Loss Avoid & Mid-Late	-7.486000	0.826500	False
Depressed & Reward & Late Vs Healthy & Reward & Early	-23.018100	0.000000	True
Depressed & Reward & Late Vs Healthy & Reward & Late	-3.415000	0.999900	False
Depressed & Reward & Late Vs Healthy & Reward & Mid-Early	-7.740300	0.786900	False
Depressed & Reward & Late Vs Healthy & Reward & Mid-Late	-4.456900	0.998500	False
Depressed & Reward & Mid-Early Vs Depressed & Reward & Mid-Late	-1.321000	1.000000	False
Depressed & Reward & Mid-Early Vs Healthy & Loss Avoid & Early	-14.979700	0.006900	True
Depressed & Reward & Mid-Early Vs Healthy & Loss Avoid & Late	5.727400	0.979100	False
Depressed & Reward & Mid-Early Vs Healthy & Loss Avoid & Mid-Early	-3.222900	1.000000	False
Depressed & Reward & Mid-Early Vs Healthy & Loss Avoid & Mid-Late	0.449600	1.000000	False
Depressed & Reward & Mid-Early Vs Healthy & Reward & Early	-15.082500	0.006200	True
Depressed & Reward & Mid-Early Vs Healthy & Reward & Late	4.520700	0.998200	False
Depressed & Reward & Mid-Early Vs Healthy & Reward & Mid-Early	0.195300	1.000000	False
Depressed & Reward & Mid-Early Vs Healthy & Reward & Mid-Late	3.478700	0.999900	False
Depressed & Reward & Mid-Late Vs Healthy & Loss Avoid & Early	-13.658700	0.025100	True
Depressed & Reward & Mid-Late Vs Healthy & Loss Avoid & Late	7.048400	0.884400	False
Depressed & Reward & Mid-Late Vs Healthy & Loss Avoid & Mid-Early	-1.901800	1.000000	False
Depressed & Reward & Mid-Late Vs Healthy & Loss Avoid & Mid-Late	1.770600	1.000000	False
Depressed & Reward & Mid-Late Vs Healthy & Reward & Early	-13.761500	0.022900	True
Depressed & Reward & Mid-Late Vs Healthy & Reward & Late	5.841700	0.975000	False

factor	Meandiff	P-Adj	Reject
Depressed & Reward & Mid-Late Vs Healthy & Reward & Mid-Early	1.516300	1.000000	False
Depressed & Reward & Mid-Late Vs Healthy & Reward & Mid-Late	4.799700	0.996500	False
Healthy & Loss Avoid & Early Vs Healthy & Loss Avoid & Late	20.707100	0.000000	True
Healthy & Loss Avoid & Early Vs Healthy & Loss Avoid & Mid-Early	11.756900	0.002800	True
Healthy & Loss Avoid & Early Vs Healthy & Loss Avoid & Mid-Late	15.429300	0.000000	True
Healthy & Loss Avoid & Early Vs Healthy & Reward & Early	-0.102800	1.000000	False
Healthy & Loss Avoid & Early Vs Healthy & Reward & Late	19.500400	0.000000	True
Healthy & Loss Avoid & Early Vs Healthy & Reward & Mid-Early	15.175000	0.000000	True
Healthy & Loss Avoid & Early Vs Healthy & Reward & Mid-Late	18.458400	0.000000	True
Healthy & Loss Avoid & Late Vs Healthy & Loss Avoid & Mid-Early	-8.950200	0.096700	False
Healthy & Loss Avoid & Late Vs Healthy & Loss Avoid & Mid-Late	-5.277800	0.877600	False
Healthy & Loss Avoid & Late Vs Healthy & Reward & Early	-20.809900	0.000000	True
Healthy & Loss Avoid & Late Vs Healthy & Reward & Late	-1.206700	1.000000	False
Healthy & Loss Avoid & Late Vs Healthy & Reward & Mid-Early	-5.532100	0.832100	False
Healthy & Loss Avoid & Late Vs Healthy & Reward & Mid-Late	-2.248700	1.000000	False
Healthy & Loss Avoid & Mid-Early Vs Healthy & Loss Avoid & Mid-Late	3.672400	0.995200	False
Healthy & Loss Avoid & Mid-Early Vs Healthy & Reward & Early	-11.859700	0.002400	True
Healthy & Loss Avoid & Mid-Early Vs Healthy & Reward & Late	7.743500	0.281600	False
Healthy & Loss Avoid & Mid-Early Vs Healthy & Reward & Mid-Early	3.418100	0.997800	False
Healthy & Loss Avoid & Mid-Early Vs Healthy & Reward & Mid-Late	6.701500	0.542600	False
Healthy & Loss Avoid & Mid-Late Vs Healthy & Reward & Early	-15.532100	0.000000	True
Healthy & Loss Avoid & Mid-Late Vs Healthy & Reward & Late	4.071100	0.986300	False
Healthy & Loss Avoid & Mid-Late Vs Healthy & Reward & Mid-Early	-0.254300	1.000000	False
Healthy & Loss Avoid & Mid-Late Vs Healthy & Reward & Mid-Late	3.029100	0.999500	False
Healthy & Reward & Early Vs Healthy & Reward & Late	19.603200	0.000000	True
Healthy & Reward & Early Vs Healthy & Reward & Mid-Early	15.277800	0.000000	True
Healthy & Reward & Early Vs Healthy & Reward & Mid-Late	18.561200	0.000000	True
Healthy & Reward & Late Vs Healthy & Reward & Mid-Early	-4.325400	0.975700	False
Healthy & Reward & Late Vs Healthy & Reward & Mid-Late	-1.042000	1.000000	False
Healthy & Reward & Mid-Early Vs Healthy & Reward & Mid-Late	3.283400	0.998600	False

Learning Reaction Time: Group x Context

Table 14.

factor	Meandiff	P-Adj	Reject
Depressed & Loss Avoid Vs Depressed & Reward	-150.518900	0.351500	False
Depressed & Loss Avoid Vs Healthy & Loss Avoid	-106.633000	0.495100	False
Depressed & Loss Avoid Vs Healthy & Reward	-224.907700	0.017200	True
Depressed & Reward Vs Healthy & Loss Avoid	43.885900	0.938100	False
Depressed & Reward Vs Healthy & Reward	-74.388800	0.759400	False
Healthy & Loss Avoid Vs Healthy & Reward	-118.274800	0.155000	False

Learning Reaction Time: Group x Trial

Table 15.

factor	Meandiff	P-Adj	Reject
Depressed & Early Vs Depressed & Late	-515.568200	0.000000	True
Depressed & Early Vs Depressed & Mid-Early	-307.125400	0.049700	True
Depressed & Early Vs Depressed & Mid-Late	-413.799100	0.001200	True
Depressed & Early Vs Healthy & Early	-149.552700	0.630300	False
Depressed & Early Vs Healthy & Late	-563.984600	0.000000	True
Depressed & Early Vs Healthy & Mid-Early	-405.480200	0.000000	True
Depressed & Early Vs Healthy & Mid-Late	-489.343500	0.000000	True
Depressed & Late Vs Depressed & Mid-Early	208.442800	0.437500	False
Depressed & Late Vs Depressed & Mid-Late	101.769000	0.972900	False
Depressed & Late Vs Healthy & Early	366.015400	0.000400	True
Depressed & Late Vs Healthy & Late	-48.416400	0.999100	False
Depressed & Late Vs Healthy & Mid-Early	110.088000	0.893300	False
Depressed & Late Vs Healthy & Mid-Late	26.224700	1.000000	False
Depressed & Mid-Early Vs Depressed & Mid-Late	-106.673800	0.964900	False
Depressed & Mid-Early Vs Healthy & Early	157.572600	0.564600	False
Depressed & Mid-Early Vs Healthy & Late	-256.859200	0.047000	True
Depressed & Mid-Early Vs Healthy & Mid-Early	-98.354800	0.938900	False
Depressed & Mid-Early Vs Healthy & Mid-Late	-182.218100	0.368600	False
Depressed & Mid-Late Vs Healthy & Early	264.246400	0.036200	True
Depressed & Mid-Late Vs Healthy & Late	-150.185400	0.625200	False
Depressed & Mid-Late Vs Healthy & Mid-Early	8.319000	1.000000	False
Depressed & Mid-Late Vs Healthy & Mid-Late	-75.544400	0.985800	False
Healthy & Early Vs Healthy & Late	-414.431800	0.000000	True
Healthy & Early Vs Healthy & Mid-Early	-255.927400	0.001200	True
Healthy & Early Vs Healthy & Mid-Late	-339.790700	0.000000	True
Healthy & Late Vs Healthy & Mid-Early	158.504400	0.178400	False
Healthy & Late Vs Healthy & Mid-Late	74.641100	0.931800	False
Healthy & Mid-Early Vs Healthy & Mid-Late	-83.863300	0.879800	False

Learning Reaction Time: Context x Trial

Table 16.

factor	Meandiff	P-Adj	Reject
Loss Avoid & Early Vs Loss Avoid & Late	-448.490100	0.000000	True
Loss Avoid & Early Vs Loss Avoid & Mid-Early	-250.409500	0.000300	True
Loss Avoid & Early Vs Loss Avoid & Mid-Late	-348.444600	0.000000	True
Loss Avoid & Early Vs Reward & Early	-115.674700	0.456300	False
Loss Avoid & Early Vs Reward & Late	-552.044400	0.000000	True
Loss Avoid & Early Vs Reward & Mid-Early	-404.504400	0.000000	True
Loss Avoid & Early Vs Reward & Mid-Late	-488.265900	0.000000	True
Loss Avoid & Late Vs Loss Avoid & Mid-Early	198.080600	0.011800	True
Loss Avoid & Late Vs Loss Avoid & Mid-Late	100.045500	0.645400	False
Loss Avoid & Late Vs Reward & Early	332.815400	0.000000	True
Loss Avoid & Late Vs Reward & Late	-103.554300	0.603200	False
Loss Avoid & Late Vs Reward & Mid-Early	43.985600	0.994300	False
Loss Avoid & Late Vs Reward & Mid-Late	-39.775800	0.997000	False
Loss Avoid & Mid-Early Vs Loss Avoid & Mid-Late	-98.035100	0.669100	False
Loss Avoid & Mid-Early Vs Reward & Early	134.734800	0.255200	False
Loss Avoid & Mid-Early Vs Reward & Late	-301.634900	0.000000	True
Loss Avoid & Mid-Early Vs Reward & Mid-Early	-154.095000	0.119100	False
Loss Avoid & Mid-Early Vs Reward & Mid-Late	-237.856400	0.000800	True
Loss Avoid & Mid-Late Vs Reward & Early	232.769900	0.001200	True
Loss Avoid & Mid-Late Vs Reward & Late	-203.599800	0.008400	True
Loss Avoid & Mid-Late Vs Reward & Mid-Early	-56.059800	0.976100	False
Loss Avoid & Mid-Late Vs Reward & Mid-Late	-139.821300	0.212400	False
Reward & Early Vs Reward & Late	-436.369700	0.000000	True
Reward & Early Vs Reward & Mid-Early	-288.829800	0.000000	True
Reward & Early Vs Reward & Mid-Late	-372.591200	0.000000	True
Reward & Late Vs Reward & Mid-Early	147.539900	0.157100	False
Reward & Late Vs Reward & Mid-Late	63.778500	0.951600	False
Reward & Mid-Early Vs Reward & Mid-Late	-83.761400	0.820200	False

Learning Reaction Time: Group x Context x Trial

Table 17.

factor	Meandiff	P-Adj	Reject
Depressed & Loss Avoid & Early Vs Depressed & Loss Avoid & Late	-552.310200	0.000000	True
Depressed & Loss Avoid & Early Vs Depressed & Loss Avoid & Mid-Early	-274.764600	0.437700	False
Depressed & Loss Avoid & Early Vs Depressed & Loss Avoid & Mid-Late	-385.030700	0.032400	True
Depressed & Loss Avoid & Early Vs Depressed & Reward & Early	-138.866400	0.996300	False
Depressed & Loss Avoid & Early Vs Depressed & Reward & Late	-617.667400	0.000000	True
Depressed & Loss Avoid & Early Vs Depressed & Reward & Mid-Early	-476.983200	0.001200	True
Depressed & Loss Avoid & Early Vs Depressed & Reward & Mid-Late	-582.105600	0.000000	True
Depressed & Loss Avoid & Early Vs Healthy & Loss Avoid & Early	-165.270300	0.899700	False
Depressed & Loss Avoid & Early Vs Healthy & Loss Avoid & Late	-574.209900	0.000000	True
Depressed & Loss Avoid & Early Vs Healthy & Loss Avoid & Mid-Early	-406.401700	0.000700	True
Depressed & Loss Avoid & Early Vs Healthy & Loss Avoid & Mid-Late	-499.777300	0.000000	True
Depressed & Loss Avoid & Early Vs Healthy & Reward & Early	-272.110100	0.156200	False
Depressed & Loss Avoid & Early Vs Healthy & Reward & Late	-692.315400	0.000000	True
Depressed & Loss Avoid & Early Vs Healthy & Reward & Mid-Early	-542.163800	0.000000	True
Depressed & Loss Avoid & Early Vs Healthy & Reward & Mid-Late	-617.787700	0.000000	True
Depressed & Loss Avoid & Late Vs Depressed & Loss Avoid & Mid-Early	277.545600	0.419100	False
Depressed & Loss Avoid & Late Vs Depressed & Loss Avoid & Mid-Late	167.279500	0.976100	False
Depressed & Loss Avoid & Late Vs Depressed & Reward & Early	413.443800	0.012800	True
Depressed & Loss Avoid & Late Vs Depressed & Reward & Late	-65.357200	1.000000	False
Depressed & Loss Avoid & Late Vs Depressed & Reward & Mid-Early	75.326900	1.000000	False
Depressed & Loss Avoid & Late Vs Depressed & Reward & Mid-Late	-29.795500	1.000000	False
Depressed & Loss Avoid & Late Vs Healthy & Loss Avoid & Early	387.039900	0.001900	True
Depressed & Loss Avoid & Late Vs Healthy & Loss Avoid & Late	-21.899700	1.000000	False
Depressed & Loss Avoid & Late Vs Healthy & Loss Avoid & Mid-Early	145.908500	0.963100	False
Depressed & Loss Avoid & Late Vs Healthy & Loss Avoid & Mid-Late	52.532800	1.000000	False
Depressed & Loss Avoid & Late Vs Healthy & Reward & Early	280.200100	0.123500	False
Depressed & Loss Avoid & Late Vs Healthy & Reward & Late	-140.005200	0.974500	False
Depressed & Loss Avoid & Late Vs Healthy & Reward & Mid-Early	10.146400	1.000000	False
Depressed & Loss Avoid & Late Vs Healthy & Reward & Mid-Late	-65.477500	1.000000	False
Depressed & Loss Avoid & Mid-Early Vs Depressed & Loss Avoid & Mid-Late	-110.266100	0.999700	False

factor	Meandiff	P-Adj	Reject
Depressed & Loss Avoid & Mid-Early Vs Depressed & Reward & Early	135.898200	0.997100	False
Depressed & Loss Avoid & Mid-Early Vs Depressed & Reward & Late	-342.902900	0.107000	False
Depressed & Loss Avoid & Mid-Early Vs Depressed & Reward & Mid-Early	-202.218700	0.887000	False
Depressed & Loss Avoid & Mid-Early Vs Depressed & Reward & Mid-Late	-307.341100	0.243400	False
Depressed & Loss Avoid & Mid-Early Vs Healthy & Loss Avoid & Early	109.494300	0.997900	False
Depressed & Loss Avoid & Mid-Early Vs Healthy & Loss Avoid & Late	-299.445300	0.067000	False
Depressed & Loss Avoid & Mid-Early Vs Healthy & Loss Avoid & Mid-Early	-131.637100	0.985700	False
Depressed & Loss Avoid & Mid-Early Vs Healthy & Loss Avoid & Mid-Late	-225.012800	0.464800	False
Depressed & Loss Avoid & Mid-Early Vs Healthy & Reward & Early	2.654500	1.000000	False
Depressed & Loss Avoid & Mid-Early Vs Healthy & Reward & Late	-417.550800	0.000400	True
Depressed & Loss Avoid & Mid-Early Vs Healthy & Reward & Mid-Early	-267.399200	0.178100	False
Depressed & Loss Avoid & Mid-Early Vs Healthy & Reward & Mid-Late	-343.023100	0.013100	True
Depressed & Loss Avoid & Mid-Late Vs Depressed & Reward & Early	246.164300	0.637300	False
Depressed & Loss Avoid & Mid-Late Vs Depressed & Reward & Late	-232.636700	0.727400	False
Depressed & Loss Avoid & Mid-Late Vs Depressed & Reward & Mid-Early	-91.952500	1.000000	False
Depressed & Loss Avoid & Mid-Late Vs Depressed & Reward & Mid-Late	-197.074900	0.906300	False
Depressed & Loss Avoid & Mid-Late Vs Healthy & Loss Avoid & Early	219.760400	0.508800	False
Depressed & Loss Avoid & Mid-Late Vs Healthy & Loss Avoid & Late	-189.179200	0.758100	False
Depressed & Loss Avoid & Mid-Late Vs Healthy & Loss Avoid & Mid-Early	-21.370900	1.000000	False
Depressed & Loss Avoid & Mid-Late Vs Healthy & Loss Avoid & Mid-Late	-114.746600	0.996500	False
Depressed & Loss Avoid & Mid-Late Vs Healthy & Reward & Early	112.920600	0.997100	False
Depressed & Loss Avoid & Mid-Late Vs Healthy & Reward & Late	-307.284700	0.051200	False
Depressed & Loss Avoid & Mid-Late Vs Healthy & Reward & Mid-Early	-157.133100	0.931800	False
Depressed & Loss Avoid & Mid-Late Vs Healthy & Reward & Mid-Late	-232.757000	0.402100	False
Depressed & Reward & Early Vs Depressed & Reward & Late	-478.801100	0.001100	True
Depressed & Reward & Early Vs Depressed & Reward & Mid-Early	-338.116900	0.120700	False
Depressed & Reward & Early Vs Depressed & Reward & Mid-Late	-443.239300	0.004400	True
Depressed & Reward & Early Vs Healthy & Loss Avoid & Early	-26.403900	1.000000	False
Depressed & Reward & Early Vs Healthy & Loss Avoid & Late	-435.343500	0.000200	True
Depressed & Reward & Early Vs Healthy & Loss Avoid & Mid-Early	-267.535300	0.177400	False

factor	Meandiff	P-Adj	Reject
Depressed & Reward & Early Vs Healthy & Loss Avoid & Mid-Late	-360.911000	0.006100	True
Depressed & Reward & Early Vs Healthy & Reward & Early	-133.243700	0.983900	False
Depressed & Reward & Early Vs Healthy & Reward & Late	-553.449000	0.000000	True
Depressed & Reward & Early Vs Healthy & Reward & Mid-Early	-403.297400	0.000800	True
Depressed & Reward & Early Vs Healthy & Reward & Mid-Late	-478.921300	0.000000	True
Depressed & Reward & Late Vs Depressed & Reward & Mid-Early	140.684200	0.995700	False
Depressed & Reward & Late Vs Depressed & Reward & Mid-Late	35.561800	1.000000	False
Depressed & Reward & Late Vs Healthy & Loss Avoid & Early	452.397100	0.000100	True
Depressed & Reward & Late Vs Healthy & Loss Avoid & Late	43.457600	1.000000	False
Depressed & Reward & Late Vs Healthy & Loss Avoid & Mid-Early	211.265800	0.580900	False
Depressed & Reward & Late Vs Healthy & Loss Avoid & Mid-Late	117.890100	0.995300	False
Depressed & Reward & Late Vs Healthy & Reward & Early	345.557400	0.011800	True
Depressed & Reward & Late Vs Healthy & Reward & Late	-74.648000	1.000000	False
Depressed & Reward & Late Vs Healthy & Reward & Mid-Early	75.503700	1.000000	False
Depressed & Reward & Late Vs Healthy & Reward & Mid-Late	-0.120300	1.000000	False
Depressed & Reward & Mid-Early Vs Depressed & Reward & Mid-Late	-105.122400	0.999900	False
Depressed & Reward & Mid-Early Vs Healthy & Loss Avoid & Early	311.712900	0.043800	True
Depressed & Reward & Mid-Early Vs Healthy & Loss Avoid & Late	-97.226600	0.999500	False
Depressed & Reward & Mid-Early Vs Healthy & Loss Avoid & Mid-Early	70.581600	1.000000	False
Depressed & Reward & Mid-Early Vs Healthy & Loss Avoid & Mid-Late	-22.794100	1.000000	False
Depressed & Reward & Mid-Early Vs Healthy & Reward & Early	204.873200	0.634700	False
Depressed & Reward & Mid-Early Vs Healthy & Reward & Late	-215.332200	0.546300	False
Depressed & Reward & Mid-Early Vs Healthy & Reward & Mid-Early	-65.180500	1.000000	False
Depressed & Reward & Mid-Early Vs Healthy & Reward & Mid-Late	-140.804500	0.973100	False
Depressed & Reward & Mid-Late Vs Healthy & Loss Avoid & Early	416.835300	0.000400	True
Depressed & Reward & Mid-Late Vs Healthy & Loss Avoid & Late	7.895800	1.000000	False
Depressed & Reward & Mid-Late Vs Healthy & Loss Avoid & Mid-Early	175.704000	0.846400	False
Depressed & Reward & Mid-Late Vs Healthy & Loss Avoid & Mid-Late	82.328300	0.999900	False
Depressed & Reward & Mid-Late Vs Healthy & Reward & Early	309.995600	0.046500	True
Depressed & Reward & Mid-Late Vs Healthy & Reward & Late	-110.209800	0.997800	False

factor	Meandiff	P-Adj	Reject
Depressed & Reward & Mid-Late Vs Healthy & Reward & Mid-Early	39.941900	1.000000	False
Depressed & Reward & Mid-Late Vs Healthy & Reward & Mid-Late	-35.682100	1.000000	False
Healthy & Loss Avoid & Early Vs Healthy & Loss Avoid & Late	-408.939600	0.000000	True
Healthy & Loss Avoid & Early Vs Healthy & Loss Avoid & Mid-Early	-241.131400	0.027200	True
Healthy & Loss Avoid & Early Vs Healthy & Loss Avoid & Mid-Late	-334.507000	0.000100	True
Healthy & Loss Avoid & Early Vs Healthy & Reward & Early	-106.839800	0.967500	False
Healthy & Loss Avoid & Early Vs Healthy & Reward & Late	-527.045100	0.000000	True
Healthy & Loss Avoid & Early Vs Healthy & Reward & Mid-Early	-376.893500	0.000000	True
Healthy & Loss Avoid & Early Vs Healthy & Reward & Mid-Late	-452.517400	0.000000	True
Healthy & Loss Avoid & Late Vs Healthy & Loss Avoid & Mid-Early	167.808200	0.457400	False
Healthy & Loss Avoid & Late Vs Healthy & Loss Avoid & Mid-Late	74.432500	0.999200	False
Healthy & Loss Avoid & Late Vs Healthy & Reward & Early	302.099800	0.000700	True
Healthy & Loss Avoid & Late Vs Healthy & Reward & Late	-118.105500	0.925100	False
Healthy & Loss Avoid & Late Vs Healthy & Reward & Mid-Early	32.046100	1.000000	False
Healthy & Loss Avoid & Late Vs Healthy & Reward & Mid-Late	-43.577800	1.000000	False
Healthy & Loss Avoid & Mid-Early Vs Healthy & Loss Avoid & Mid-Late	-93.375700	0.990900	False
Healthy & Loss Avoid & Mid-Early Vs Healthy & Reward & Early	134.291600	0.815500	False
Healthy & Loss Avoid & Mid-Early Vs Healthy & Reward & Late	-285.913700	0.002100	True
Healthy & Loss Avoid & Mid-Early Vs Healthy & Reward & Mid-Early	-135.762100	0.802600	False
Healthy & Loss Avoid & Mid-Early Vs Healthy & Reward & Mid-Late	-211.386000	0.108100	False
Healthy & Loss Avoid & Mid-Late Vs Healthy & Reward & Early	227.667300	0.052600	False
Healthy & Loss Avoid & Mid-Late Vs Healthy & Reward & Late	-192.538100	0.221100	False
Healthy & Loss Avoid & Mid-Late Vs Healthy & Reward & Mid-Early	-42.386400	1.000000	False
Healthy & Loss Avoid & Mid-Late Vs Healthy & Reward & Mid-Late	-118.010400	0.925600	False
Healthy & Reward & Early Vs Healthy & Reward & Late	-420.205300	0.000000	True
Healthy & Reward & Early Vs Healthy & Reward & Mid-Early	-270.053700	0.005500	True
Healthy & Reward & Early Vs Healthy & Reward & Mid-Late	-345.677600	0.000000	True
Healthy & Reward & Late Vs Healthy & Reward & Mid-Early	150.151600	0.657200	False
Healthy & Reward & Late Vs Healthy & Reward & Mid-Late	74.527700	0.999200	False
Healthy & Reward & Mid-Early Vs Healthy & Reward & Mid-Late	-75.623900	0.999100	False

Transfer Accuracy

Table 18.

factor	Meandiff	P-Adj	Reject
Depressed & High Punish Vs Depressed & High Reward	73.707000	0.000000	True
Depressed & High Punish Vs Depressed & Low Punish	36.680800	0.000000	True
Depressed & High Punish Vs Depressed & Low Reward	40.389400	0.000000	True
Depressed & High Punish Vs Depressed & Novel	20.141200	0.000000	True
Depressed & High Punish Vs Healthy & High Punish	0.194200	1.000000	False
Depressed & High Punish Vs Healthy & High Reward	70.797800	0.000000	True
Depressed & High Punish Vs Healthy & Low Punish	36.575000	0.000000	True
Depressed & High Punish Vs Healthy & Low Reward	42.763600	0.000000	True
Depressed & High Punish Vs Healthy & Novel	21.300400	0.000000	True
Depressed & High Reward Vs Depressed & Low Punish	-37.026200	0.000000	True
Depressed & High Reward Vs Depressed & Low Reward	-33.317600	0.000000	True
Depressed & High Reward Vs Depressed & Novel	-53.565800	0.000000	True
Depressed & High Reward Vs Healthy & High Punish	-73.512800	0.000000	True
Depressed & High Reward Vs Healthy & High Reward	-2.909200	0.997100	False
Depressed & High Reward Vs Healthy & Low Punish	-37.131900	0.000000	True
Depressed & High Reward Vs Healthy & Low Reward	-30.943300	0.000000	True
Depressed & High Reward Vs Healthy & Novel	-52.406600	0.000000	True
Depressed & Low Punish Vs Depressed & Low Reward	3.708600	0.995500	False
Depressed & Low Punish Vs Depressed & Novel	-16.539600	0.001600	True
Depressed & Low Punish Vs Healthy & High Punish	-36.486600	0.000000	True
Depressed & Low Punish Vs Healthy & High Reward	34.117000	0.000000	True
Depressed & Low Punish Vs Healthy & Low Punish	-0.105800	1.000000	False
Depressed & Low Punish Vs Healthy & Low Reward	6.082800	0.715000	False
Depressed & Low Punish Vs Healthy & Novel	-15.380400	0.000200	True
Depressed & Low Reward Vs Depressed & Novel	-20.248200	0.000000	True
Depressed & Low Reward Vs Healthy & High Punish	-40.195200	0.000000	True
Depressed & Low Reward Vs Healthy & High Reward	30.408400	0.000000	True
Depressed & Low Reward Vs Healthy & Low Punish	-3.814300	0.979300	False
Depressed & Low Reward Vs Healthy & Low Reward	2.374300	0.999400	False
Depressed & Low Reward Vs Healthy & Novel	-19.089000	0.000000	True

factor	Meandiff	P-Adj	Reject
Depressed & Novel Vs Healthy & High Punish	-19.947000	0.000000	True
Depressed & Novel Vs Healthy & High Reward	50.656600	0.000000	True
Depressed & Novel Vs Healthy & Low Punish	16.433800	0.000000	True
Depressed & Novel Vs Healthy & Low Reward	22.622400	0.000000	True
Depressed & Novel Vs Healthy & Novel	1.159200	1.000000	False
Healthy & High Punish Vs Healthy & High Reward	70.603600	0.000000	True
Healthy & High Punish Vs Healthy & Low Punish	36.380900	0.000000	True
Healthy & High Punish Vs Healthy & Low Reward	42.569400	0.000000	True
Healthy & High Punish Vs Healthy & Novel	21.106200	0.000000	True
Healthy & High Reward Vs Healthy & Low Punish	-34.222800	0.000000	True
Healthy & High Reward Vs Healthy & Low Reward	-28.034200	0.000000	True
Healthy & High Reward Vs Healthy & Novel	-49.497400	0.000000	True
Healthy & Low Punish Vs Healthy & Low Reward	6.188600	0.266100	False
Healthy & Low Punish Vs Healthy & Novel	-15.274700	0.000000	True
Healthy & Low Reward Vs Healthy & Novel	-21.463300	0.000000	True

Transfer Reaction Time

Table 19.

factor	Meandiff	P-Adj	Reject
Depressed & High Punish Vs Depressed & High Reward	-297.947900	0.041800	True
Depressed & High Punish Vs Depressed & Low Punish	-110.712900	0.971900	False
Depressed & High Punish Vs Depressed & Low Reward	-43.328400	1.000000	False
Depressed & High Punish Vs Depressed & Novel	-31.454500	1.000000	False
Depressed & High Punish Vs Healthy & High Punish	-82.810800	0.987200	False
Depressed & High Punish Vs Healthy & High Reward	-360.643700	0.000100	True
Depressed & High Punish Vs Healthy & Low Punish	-164.751300	0.495900	False
Depressed & High Punish Vs Healthy & Low Reward	-167.106200	0.474400	False
Depressed & High Punish Vs Healthy & Novel	-100.596800	0.951200	False
Depressed & High Reward Vs Depressed & Low Punish	187.235000	0.564000	False
Depressed & High Reward Vs Depressed & Low Reward	254.619500	0.143200	False
Depressed & High Reward Vs Depressed & Novel	266.493300	0.103100	False
Depressed & High Reward Vs Healthy & High Punish	215.137000	0.133800	False
Depressed & High Reward Vs Healthy & High Reward	-62.695900	0.998200	False
Depressed & High Reward Vs Healthy & Low Punish	133.196600	0.763100	False
Depressed & High Reward Vs Healthy & Low Reward	130.841600	0.781600	False
Depressed & High Reward Vs Healthy & Novel	197.351100	0.219900	False
Depressed & Low Punish Vs Depressed & Low Reward	67.384500	0.999300	False
Depressed & Low Punish Vs Depressed & Novel	79.258400	0.997300	False
Depressed & Low Punish Vs Healthy & High Punish	27.902100	1.000000	False
Depressed & Low Punish Vs Healthy & High Reward	-249.930900	0.035100	True
Depressed & Low Punish Vs Healthy & Low Punish	-54.038400	0.999400	False
Depressed & Low Punish Vs Healthy & Low Reward	-56.393400	0.999200	False
Depressed & Low Punish Vs Healthy & Novel	10.116100	1.000000	False
Depressed & Low Reward Vs Depressed & Novel	11.873900	1.000000	False
Depressed & Low Reward Vs Healthy & High Punish	-39.482400	1.000000	False
Depressed & Low Reward Vs Healthy & High Reward	-317.315400	0.001400	True
Depressed & Low Reward Vs Healthy & Low Punish	-121.422900	0.848100	False
Depressed & Low Reward Vs Healthy & Low Reward	-123.777900	0.832700	False
Depressed & Low Reward Vs Healthy & Novel	-57.268400	0.999100	False

factor	Meandiff	P-Adj	Reject
Depressed & Novel Vs Healthy & High Punish	-51.356300	0.999600	False
Depressed & Novel Vs Healthy & High Reward	-329.189200	0.000700	True
Depressed & Novel Vs Healthy & Low Punish	-133.296800	0.762300	False
Depressed & Novel Vs Healthy & Low Reward	-135.651700	0.743200	False
Depressed & Novel Vs Healthy & Novel	-69.142300	0.996100	False
Healthy & High Punish Vs Healthy & High Reward	-277.832900	0.000100	True
Healthy & High Punish Vs Healthy & Low Punish	-81.940500	0.915600	False
Healthy & High Punish Vs Healthy & Low Reward	-84.295400	0.900900	False
Healthy & High Punish Vs Healthy & Novel	-17.786000	1.000000	False
Healthy & High Reward Vs Healthy & Low Punish	195.892500	0.019500	True
Healthy & High Reward Vs Healthy & Low Reward	193.537500	0.022400	True
Healthy & High Reward Vs Healthy & Novel	260.047000	0.000200	True
Healthy & Low Punish Vs Healthy & Low Reward	-2.355000	1.000000	False
Healthy & Low Punish Vs Healthy & Novel	64.154500	0.980600	False
Healthy & Low Reward Vs Healthy & Novel	66.509500	0.975200	False