**Figure 1-1. Details of statistical analysis cohort one.**

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| Figure(Extended Data)  | Data structure  | Type of test  | Observedpower  | n |
| 2-1A(LD) | Nonparametric | One-Way ANOVA/Sidak’s multiple comparison | 0.72 | Control 7Blast 7Blast LD 7Blast HD 5 |
| 2-1A | Normal distribution  | One-Way ANOVA/Sidak’s multiple comparison  | 0.85 | Control 7Blast 7Blast LD 7Blast HD 5 |
| 2-1A | Normal distribution  | One-Way ANOVA/Sidak’s multiple comparison  | 0.80 | Control 7Blast 7Blast LD 6Blast HD 5 |
| 2-1A | Normal distribution  | One-Way ANOVA/Sidak’s multiple comparison | 0.99 | Control 7Blast 7Blast LD 7Blast HD 5 |
| 2-1A | Normal distribution  | One-Way ANOVA/Sidak’s multiple comparison | 0.80 | Control 7Blast 7Blast LD 7Blast HD 5 |
| 2-1B(Zero Maze) | Normal distribution | One-way ANOVA/Tukey's multiple comparisons test | NA | Control 7Blast 7Blast LD 7Blast HD 5 |
| 2-1B | Normal distribution  | One-Way ANOVA/Sidak’s multiple comparison | 0.99 | Control 7Blast 7Blast LD 7Blast HD 5 |
| 2-1B | Normal distribution  | One-Way ANOVA/Sidak’s multiple comparison | 0.93 | Control 7Blast 7Blast LD 7Blast HD 5 |
| 2-1B | Normal distribution  | One-Way ANOVA/Sidak’s multiple comparison | 0.93 | Control 7Blast 7Blast LD 7Blast HD 5 |
| 2-1B | Normal distribution  | One-Way ANOVA/Sidak’s multiple comparison | 0.799 | Control 7Blast 7Blast LD 7Blast HD 5 |
| 2-1C (SPI) | Normal distribution | One-way ANOVA /Tukey's multiple comparisons test | 0.2 | Control 7Blast 7Blast LD 7Blast HD 5 |
| 2-1C  | Normal distribution | One-way ANOVA /Tukey's multiple comparisons test | 0.5 | Control 7Blast 7Blast LD 7Blast HD 5 |
| 2-1C | Normal distribution | One-way ANOVA /Tukey's multiple comparisons test | 0.2 | Control 6Blast 6Blast LD 7Blast HD 5 |
| 2-1C | Normal distribution | One-way ANOVA /Tukey's multiple comparisons test | 0.2 | Control 6Blast 6Blast LD 7Blast HD 5 |
| 5-1A (FC) | Normal distribution | Repeated measures | NA | Control 6Blast 6Blast LD 7Blast HD 5 |
| 5-1A | Normal distribution | One-way ANOVASidak's multiple comparisons test | 0.81 for last minute | Control 6Blast 6Blast LD 7Blast HD 5 |
| 5-1A | Normal distribution | One-way ANOVASidak's multiple comparisons test | 0.87 for tone 2 | Control 6Blast 6Blast LD 7Blast HD 5 |
| 5-1B (NOR) | Normal distribution | unpaired *t*-tests  | 0.7 for controls | Control 7Blast 6Blast LD 7Blast HD 5 |
| 5-1B | Normal distribution | unpaired *t*-tests  | 0.98 for controls | Control 7Blast 6Blast LD 7Blast HD 5 |
| 5-1B | Normal distribution | unpaired *t*-tests  | 0.99 for controls | Control 7Blast 6Blast LD 7Blast HD 5 |
| 5-1B | Normal distribution | One-Way ANOVA/Sidak’s multiple comparison | 0.98 | Control 7Blast 7Blast LD 7Blast HD 5 |