# Complex Table Structures in Academic Documents

## 1. Introduction

This document demonstrates various table structures commonly found in academic papers. As shown in Table 2 (see page 5), the results support our hypothesis. We will first discuss the methodology before presenting the complete data in subsequent tables.

The forward reference to Table 2 above is intentional - readers often encounter such references before seeing the actual table. Our extraction system should handle this.

## 2. Methods

Data were collected from 100 participants across three experimental conditions. Measurements were taken at baseline, 30 minutes, and 60 minutes post-intervention.

# 3. Results

**Table 1:** Baseline characteristics of study participants

| Variable | Group A (n=50) | Group B (n=50) | p-value |
|---|---|---|---|
| Age (years) | 42.3 ± 11.2 | 41.8 ± 10.9 | 0.82 |
| Sex (M/F) | 26/24 | 28/22 | 0.69 |
| BMI (kg/m²) | 25.4 ± 3.8 | 26.1 ± 4.2 | 0.38 |
| Baseline HR (bpm) | 72.1 ± 10.5 | 71.4 ± 11.2 | 0.74 |
| SBP (mmHg) | 122 ± 14 | 124 ± 15 | 0.48 |
| DBP (mmHg) | 78 ± 9 | 79 ± 10 | 0.59 |

Table 1 shows that the groups were well-matched at baseline with no significant differences in demographic or physiological variables.

**Table 2:** Primary and secondary outcomes at 60 minutes post-intervention. Values represent mean change from baseline ± standard deviation. Statistical significance determined by independent samples t-test with Bonferroni correction.

| Outcome | Group A | Group B | Difference | 95% CI | p-value |
|---|---|---|---|---|---|
| Primary | -8.4 ± 5.2 | -3.1 ± 4.8 | -5.3 | [-7.1, -3.5] | <0.001 |
| Secondary 1 | -12.3 ± 8.1 | -7.8 ± 7.4 | -4.5 | [-7.6, -1.4] | 0.005 |
| Secondary 2 | +2.1 ± 3.4 | +1.2 ± 3.1 | +0.9 | [-0.3, 2.1] | 0.14 |
| Secondary 3 | -6.7 ± 4.9 | -5.2 ± 5.3 | -1.5 | [-3.5, 0.5] | 0.14 |

**Table 3:** Complete longitudinal data for all participants (continued on next page)

| ID | Baseline | 15 min | 30 min | 45 min | 60 min |
|---|---|---|---|---|---|
| P001 | 70.5 | 68.4 | 66.3 | 65.2 | 64.1 |
| P002 | 71.0 | 68.8 | 66.6 | 65.4 | 64.2 |
| P003 | 71.5 | 69.2 | 66.9 | 65.6 | 64.3 |
| P004 | 72.0 | 69.6 | 67.2 | 65.8 | 64.4 |
| P005 | 72.5 | 70.0 | 67.5 | 66.0 | 64.5 |
| P006 | 73.0 | 70.4 | 67.8 | 66.2 | 64.6 |
| P007 | 73.5 | 70.8 | 68.1 | 66.4 | 64.7 |
| P008 | 74.0 | 71.2 | 68.4 | 66.6 | 64.8 |
| P009 | 74.5 | 71.6 | 68.7 | 66.8 | 64.9 |
| P010 | 75.0 | 72.0 | 69.0 | 67.0 | 65.0 |
| P011 | 75.5 | 72.4 | 69.3 | 67.2 | 65.1 |
| P012 | 76.0 | 72.8 | 69.6 | 67.4 | 65.2 |
| P013 | 76.5 | 73.2 | 69.9 | 67.6 | 65.3 |
| P014 | 77.0 | 73.6 | 70.2 | 67.8 | 65.4 |
| P015 | 77.5 | 74.0 | 70.5 | 68.0 | 65.5 |
| P016 | 78.0 | 74.4 | 70.8 | 68.2 | 65.6 |
| P017 | 78.5 | 74.8 | 71.1 | 68.4 | 65.7 |
| P018 | 79.0 | 75.2 | 71.4 | 68.6 | 65.8 |
| P019 | 79.5 | 75.6 | 71.7 | 68.8 | 65.9 |
| P020 | 80.0 | 76.0 | 72.0 | 69.0 | 66.0 |
| P021 | 80.5 | 76.4 | 72.3 | 69.2 | 66.1 |
| P022 | 81.0 | 76.8 | 72.6 | 69.4 | 66.2 |
| P023 | 81.5 | 77.2 | 72.9 | 69.6 | 66.3 |
| P024 | 82.0 | 77.6 | 73.2 | 69.8 | 66.4 |
| P025 | 82.5 | 78.0 | 73.5 | 70.0 | 66.5 |

**Table 3 (continued)**

| ID | Baseline | 15 min | 30 min | 45 min | 60 min |
|---|---|---|---|---|---|
| P026 | 83.0 | 78.4 | 73.8 | 70.2 | 66.6 |
| P027 | 83.5 | 78.8 | 74.1 | 70.4 | 66.7 |
| P028 | 84.0 | 79.2 | 74.4 | 70.6 | 66.8 |
| P029 | 84.5 | 79.6 | 74.7 | 70.8 | 66.9 |
| P030 | 85.0 | 80.0 | 75.0 | 71.0 | 67.0 |
| P031 | 85.5 | 80.4 | 75.3 | 71.2 | 67.1 |
| P032 | 86.0 | 80.8 | 75.6 | 71.4 | 67.2 |
| P033 | 86.5 | 81.2 | 75.9 | 71.6 | 67.3 |
| P034 | 87.0 | 81.6 | 76.2 | 71.8 | 67.4 |
| P035 | 87.5 | 82.0 | 76.5 | 72.0 | 67.5 |
| P036 | 88.0 | 82.4 | 76.8 | 72.2 | 67.6 |
| P037 | 88.5 | 82.8 | 77.1 | 72.4 | 67.7 |
| P038 | 89.0 | 83.2 | 77.4 | 72.6 | 67.8 |
| P039 | 89.5 | 83.6 | 77.7 | 72.8 | 67.9 |
| P040 | 90.0 | 84.0 | 78.0 | 73.0 | 68.0 |
| P041 | 90.5 | 84.4 | 78.3 | 73.2 | 68.1 |
| P042 | 91.0 | 84.8 | 78.6 | 73.4 | 68.2 |
| P043 | 91.5 | 85.2 | 78.9 | 73.6 | 68.3 |
| P044 | 92.0 | 85.6 | 79.2 | 73.8 | 68.4 |
| P045 | 92.5 | 86.0 | 79.5 | 74.0 | 68.5 |
| P046 | 93.0 | 86.4 | 79.8 | 74.2 | 68.6 |
| P047 | 93.5 | 86.8 | 80.1 | 74.4 | 68.7 |
| P048 | 94.0 | 87.2 | 80.4 | 74.6 | 68.8 |
| P049 | 94.5 | 87.6 | 80.7 | 74.8 | 68.9 |
| P050 | 95.0 | 88.0 | 81.0 | 75.0 | 69.0 |

## 4. Subgroup Analysis

Analysis of the age subgroups revealed interesting patterns. The table below shows the response rates stratified by age category. Younger participants showed larger treatment effects overall.

| Age Group | N | Response Rate | Effect Size |
|:---:|:---:|:---:|:---:|
| 18-29 | 32 | 78% | 0.82 |
| 30-44 | 41 | 68% | 0.65 |
| 45-59 | 27 | 52% | 0.41 |

**Table 4:** Adverse events reported during the study period. Values represent number of events (percentage of participants). Serious adverse events (SAEs) are marked with asterisk (*). All SAEs were reviewed by the Data Safety Monitoring Board and determined to be unrelated to study intervention.

| Event | Group A | Group B | Total |
|---|---|---|---|
| Headache | 8 (16%) | 6 (12%) | 14 (14%) |
| Nausea | 4 (8%) | 5 (10%) | 9 (9%) |
| Fatigue | 6 (12%) | 7 (14%) | 13 (13%) |
| Dizziness | 3 (6%) | 2 (4%) | 5 (5%) |
| Hospitalization* | 1 (2%) | 0 (0%) | 1 (1%) |

# 5. Correlation Analysis

**Table 5:** Correlation matrix showing relationships between outcome measures

|  | Primary | Sec. 1 | Sec. 2 | Sec. 3 |
|---|---|---|---|---|
| Primary | 1.00 |  |  |  |
| Secondary 1 | 0.72*** | 1.00 |  |  |
| Secondary 2 | 0.45** | 0.38* | 1.00 |  |
| Secondary 3 | 0.68*** | 0.61*** | 0.52** | 1.00 |

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

## 6. Conclusions

This document has demonstrated various table structures that may be encountered in academic publications. Proper extraction and indexing of these tables is essential for comprehensive literature search capabilities.