Supplementary Information – Appendix A

A1. Materials and Methods

A1.1 Nanocomposite microcapsule preparation

The nanocomposite microcapsules were prepared using ULTRA HalloPure halloysite nanotubes (HNT; I-Minerals Inc., Vancouver, Canada) and sodium alginate (Manugel GHB, FMC Biopolymer, Philadelphia, PA, USA) with the monomeric composition of 37% mannuronic acid (M) and 63% guluronic acid (G). Calcium lactate (Nacalai tesque) was used to cross-link the alginate microcapsules. 0.69% (w/v) of HNT was homogenized in 10 mL of 1.38% (w/v) Na-alginate solution. The ionic gelation process was adapted from Fahimizadeh et a.,[1] using a 0.13M calcium lactate (CaL) solution. The microcapsules were oven-dried at 40°C for 12 h and stored in a desiccator before cement incorporation. The pure culture of *Bacillus pseudofirmus* DSM 8715 was purchased from the German Collection of Microorganisms and Cell Cultures (DSMZ). Oxoid yeast extract LP0021 was used as the nutrient source. Bacterial growth and the spore harvest regiment were investigated according to Fahimizadeh et al.[1] Bacterial spores (10^5 spores/mL) were added to certain microcapsules.

A1.2 Experimental design

Five treatments, as described in Table SI1, were selected to assess the impact of metakaolin, the nanocomposite microcapsules, and biomineralization on coral attachment and health. In all treatments, 10% of cement was replaced with metakaolin, while the control samples contained no metakaolin or microcapsules. The selected treatments were: (1) no microcapsules with metakaolin only, (2) calcium alginate microcapsules (CaAlg), (3) calcium alginate-halloysite nanocomposite microcapsules (AH), (4) calcium alginate-halloysite microcapsules with bacteria and nutrients (ASHY), (5) calcium alginate microcapsules with bacteria and free nutrients (ASY).

Table SI1. Description of sample series and the elements present in each treatment.

Cement paste Series	Capsule Type	Metakaolin (MK)	Sodium alginate (A)	Calcium lactate	HNT (H)	Yeast extract (Y)	Bacterial spores (S)
C	-	-	-	-	-	-	-
T1	-	+	-	-	-	-	-
T2	CaAlg	+	+	+	-	-	-
T3	AH	+	+	+	+	-	-
T4	ASHY	+	+	+	+	+	+
T5	ASY	+	+	+	-	+	+

A1.3 Cement paste sample preparation

Ordinary Portland cement (Type I) and Bovill metakaolin were used to prepare the cement samples. Initially, 75% of 5 cm × 5 cm × 2 cm polypropylene molds were filled with cement paste, and the remaining 25% was filled with cement paste containing metakaolin and different microcapsules as cement replacements, as summarized in Table SI2. This formulation allowed all included microcapsules to be partially exposed, allowing direct contact between the microcapsules and coral fragments.

Table SI2. Mix design of different cement paste samples.

Sample Type	Microcapsule Type	Sections without microcapsules		Section with microcapsules			
		Cement (wt%)	Water (wt%)	Cement (wt%)	Water (wt%)	Metakaolin (wt%)	Capsule (wt%)
C	-	74.08	25.92	74.08	25.92	-	-
T1	-	74.08	25.92	54.08	35.92	10.00	-
T2	CaAlg	74.08	25.92	49.08	35.92	10.00	5.00
T3	AH	74.08	25.92	49.08	35.92	10.00	5.00
T4	ASHY	74.08	25.92	49.08	35.92	10.00	5.00
T5	ASY	74.08	25.92	49.08	35.92	10.00	5.00

A1.4 Tank setup and maintenance

Artificial seawater (ASW, Fritz RPM Salt, Fritz Aquatics, USA) was used in this experiment, mixed to achieve 32 g/L salinity. Water parameters are described in Table SI3. An air pump was used to create a circulation flow of approximately 3 L/min. LED lights (25 W, Kandila, Indonesia) were applied to distribute 65 µmol m^{-2} s^{-1} of photosynthetically active radiation (PAR) within the tanks. Four replicate tanks, with each tank containing all six cement treatments in a random order, were used. Coral fragments were fed every six days by diluting 6 mL of liquid coral food (Seaplankton 5-in-1 coral food, Aquapharm, India) in 30 mL of ASW, and 1 mL of this diluted mixture was spot fed to each coral fragment. Feeding was implemented after the coral attachment, color was monitored, and 30% of water was replaced one hour after feeding. The water parameters of the tanks utilized in the experiment were evaluated using an aquarium test kit.

Table SI3. Water parameters of the tanks.

Parameter	Instrument/test used	Parameter value in each replicate tank
PAR±S.E. (µmol m^{-2} s^{-1})	DataHog2, Skye Instruments, UK	65.99 ± 6.87
Salinity (g/L)	Refractometer, ATC, China	33
pH	High range pH test kit, API, USA	8.4
Ammonia (NH_3/NH_4^+; mg/L)	Ammonia test kit, API, USA	0
Nitrite (NO_2^-; mg/L)	Nitrite test kit, API, USA	0
NO_3^- (mg/L)	Marine Test Lab, Colombo, Netherlands	0
PO_4^{3-} (mg/L)		<0.03
Ca (mg/L)		380
Mg (mg/L)		1230
KH (dKH)		8

A1.5 Coral collection and adherence to cement paste

On 18 June 2022, coral fragments were collected during low tide (at a juncture when corals were exposed to air) from a shallow turbid reef in Port Dickson, Negeri Sembilan, Malaysia (2°25'02.2 "N 101°51'22.3 "E) (Permit issued by Department of Fisheries of Malaysia: Prk.ML.630-7 Jld.9(34)). Four colonies of *Dipsastrea* sp. were selected for this study and were fragmented using a hammer and a chisel. Sampled colonies were at least 5 m apart to prevent accidental sampling from genetic clones. Each fragment had an approximate area of 16 cm^2 of living tissue. The fragments were transported to experimental tanks within four hour of harvesting from the reef.

The coral fragments were placed in quarantine tanks for 12 days. After the quarantine period, fragments were randomly allocated to the aforementioned treatments, with four replicates assigned to each treatment, a replicate from each treatment assigned to one of four experimental

tanks, and arranged inside the tank with a randomized design considering the position of the filter and light. Fragments were adhered to the cement paste samples by applying cyanoacrylate gel glue onto the skeletal surface at the adherence site, ensuring that living tissue was angled 90° to the cement surface and placed at the attachment site (Fig. SI1).

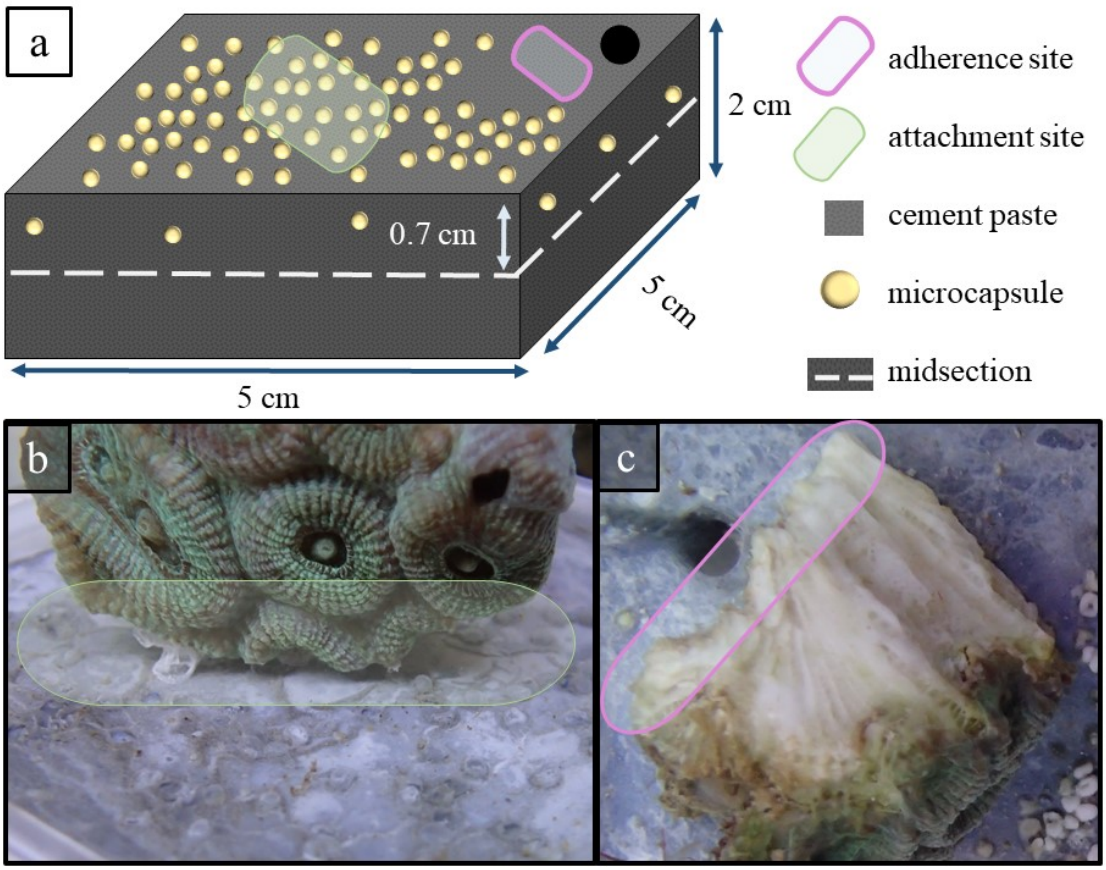


Fig. SI1. (a) Schematic showing a typical cement paste sample, (b) a coral attachment site, and (c) a coral adhesion site.

A1.6 Characterization

A1.6.1 Material characterization

Fourier-transform infrared spectroscopy (FTIR) (Spectrum 100, Perkin-Elmer Inc., United States of America) was used to determine the impact of nine weeks of exposure to cement and ASW on the cement paste and the microcapsules. Spectra were obtained from 64 scans in the range of 4000–400 cm^{-1} with a resolution of 1 cm^{-1}.

A1.6.2 Coral health and attachment assessments

The coral fragments were observed for nine weeks for attachment to cement paste samples and coral color, as determined using the Coral Health Chart reference card, by monitoring the fragments every six days.[2] The degree of color saturation on a scale of 1-6 provides a visual indication of overall coral health. The attachment was graded by a scale of 0 to 2, where scores indicate: (0) no attachment; (1) coral tissue attachment to 0.1-0.5 cm to cement, (2) coral tissue attachment to >0.5 cm of cement. Both coral attachment and health scores were visually scored and photographed using an Olympus TG-4 digital camera (Olympus, Tokyo, Japan).

A1.6.3 Statistical analysis

The coral health and attachment scores were analyzed using IBM SPSS Statistics ver. 25 (IBM, USA). The Shapiro-Wilks normality revealed that attachment and coral color scores did not follow normal distributions. The Kruskall-Wallis non-parametric test was applied to daily measurements of both attachment and coral color scores to compare treatment results.

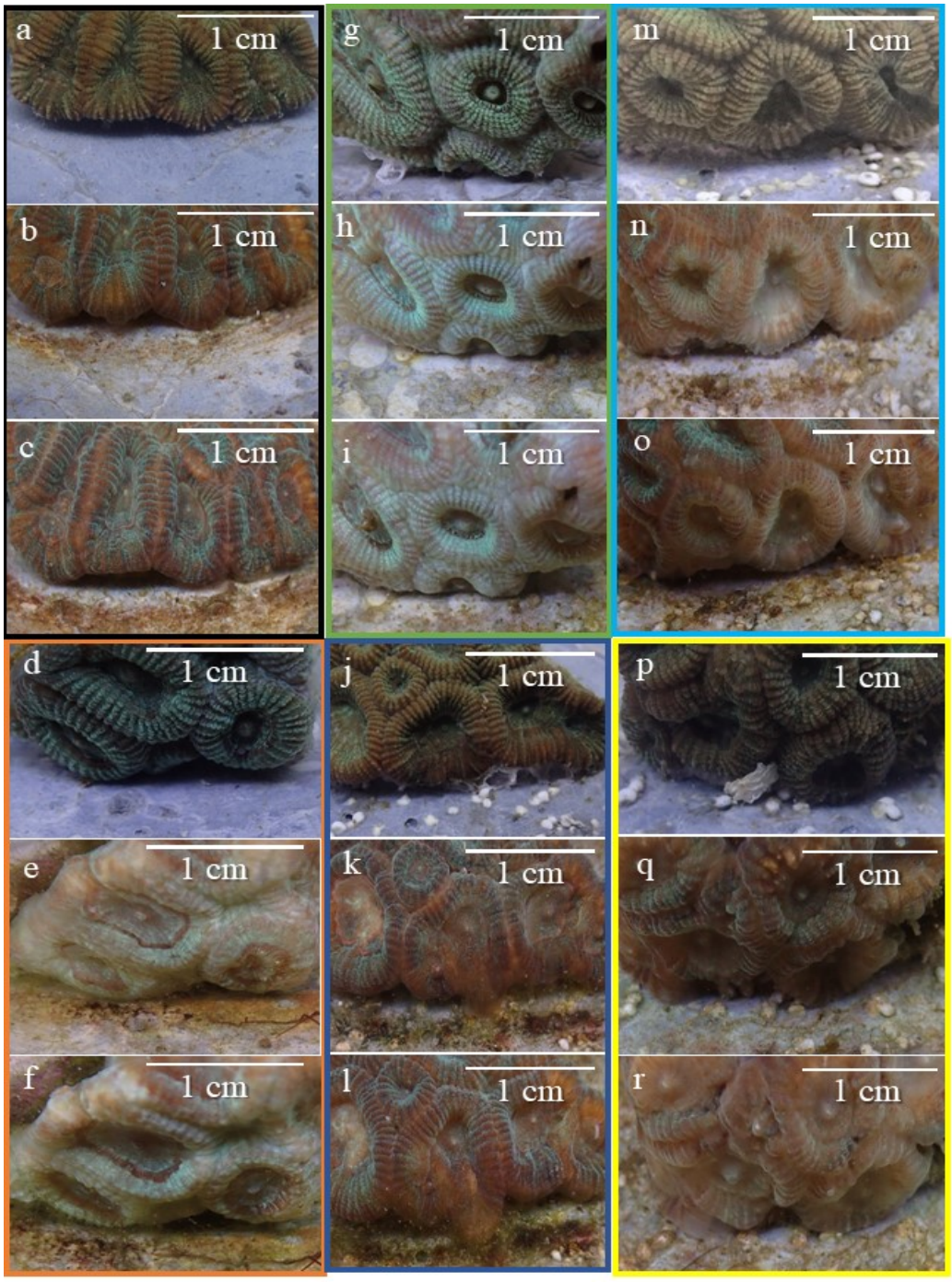


Fig. SI2. Photographs of the attachment sites of different coral fragments (Table 3) on Day 1, Day 46, and Day 66 in descending order; (a-c, black box) C corals, (d-f, orange box) T1 corals, (g-I, green box) T2 corals, (j-l, dark blue box) T3 corals, (m-o, light blue box) T4 corals, and (p-r, yellow box) T5 corals.

References

1 M. Fahimizadeh, A. D. Abeyratne, L. S. Mae, R. K. Raman Singh and P. Pasbakhsh, *Materials (Basel).*, , DOI:10.3390/MA13173711.

2 U. E. Siebeck, N. J. Marshall, A. Klüter and O. Hoegh-Guldberg, *Coral Reefs*, , DOI:10.1007/s00338-006-0123-8.

Supplementary Information – Appendix B

Statistical analysis of coral health scores

Case Processing Summary

	Treatment	Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
D0	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D6	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D12	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D18	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D24	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%

	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D30	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D36	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D42	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D48	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D54	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D60	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D66	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%

	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%

Descriptives

	Treatment			Statistic	Std. Error
D0	C	Mean		4.75	.250
		95% Confidence Interval for Mean	Lower Bound	3.95	
			Upper Bound	5.55	
		5% Trimmed Mean		4.78	
		Median		5.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		-2.000	1.014
		Kurtosis		4.000	2.619
	T1	Mean		4.50	.289
		95% Confidence Interval for Mean	Lower Bound	3.58	
			Upper Bound	5.42	
		5% Trimmed Mean		4.50	
		Median		4.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
	T2	Mean		4.75	.250
		95% Confidence Interval for Mean	Lower Bound	3.95	
			Upper Bound	5.55	
		5% Trimmed Mean		4.78	
		Median		5.00	
		Variance		.250	

		Std. Deviation	.500	
		Minimum	4	
		Maximum	5	
		Range	1	
		Interquartile Range	1	
		Skewness	-2.000	1.014
		Kurtosis	4.000	2.619
	T3	Mean	4.25	.250
		95% Confidence Interval for Mean — Lower Bound	3.45	
		95% Confidence Interval for Mean — Upper Bound	5.05	
		5% Trimmed Mean	4.22	
		Median	4.00	
		Variance	.250	
		Std. Deviation	.500	
		Minimum	4	
		Maximum	5	
		Range	1	
		Interquartile Range	1	
		Skewness	2.000	1.014
		Kurtosis	4.000	2.619
	T4	Mean	4.50	.289
		95% Confidence Interval for Mean — Lower Bound	3.58	
		95% Confidence Interval for Mean — Upper Bound	5.42	
		5% Trimmed Mean	4.50	
		Median	4.50	
		Variance	.333	
		Std. Deviation	.577	
		Minimum	4	
		Maximum	5	
		Range	1	
		Interquartile Range	1	
		Skewness	.000	1.014
		Kurtosis	-6.000	2.619
	T5	Mean	4.25	.250
		95% Confidence Interval for Mean — Lower Bound	3.45	
		95% Confidence Interval for Mean — Upper Bound	5.05	
		5% Trimmed Mean	4.22	
		Median	4.00	
		Variance	.250	
		Std. Deviation	.500	

		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
D6	C	Mean		4.50	.289
		95% Confidence Interval for Mean	Lower Bound	3.58	
			Upper Bound	5.42	
		5% Trimmed Mean		4.50	
		Median		4.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
	T1	Mean		4.50	.289
		95% Confidence Interval for Mean	Lower Bound	3.58	
			Upper Bound	5.42	
		5% Trimmed Mean		4.50	
		Median		4.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
	T2	Mean		4.25	.250
		95% Confidence Interval for Mean	Lower Bound	3.45	
			Upper Bound	5.05	
		5% Trimmed Mean		4.22	
		Median		4.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		4	

	Maximum		5	
	Range		1	
	Interquartile Range		1	
	Skewness		2.000	1.014
	Kurtosis		4.000	2.619
T3	Mean		4.25	.250
	95% Confidence Interval for Mean	Lower Bound	3.45	
		Upper Bound	5.05	
	5% Trimmed Mean		4.22	
	Median		4.00	
	Variance		.250	
	Std. Deviation		.500	
	Minimum		4	
	Maximum		5	
	Range		1	
	Interquartile Range		1	
	Skewness		2.000	1.014
	Kurtosis		4.000	2.619
T4	Mean		4.25	.250
	95% Confidence Interval for Mean	Lower Bound	3.45	
		Upper Bound	5.05	
	5% Trimmed Mean		4.22	
	Median		4.00	
	Variance		.250	
	Std. Deviation		.500	
	Minimum		4	
	Maximum		5	
	Range		1	
	Interquartile Range		1	
	Skewness		2.000	1.014
	Kurtosis		4.000	2.619
T5	Mean		4.25	.250
	95% Confidence Interval for Mean	Lower Bound	3.45	
		Upper Bound	5.05	
	5% Trimmed Mean		4.22	
	Median		4.00	
	Variance		.250	
	Std. Deviation		.500	
	Minimum		4	
	Maximum		5	

		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
D12	C	Mean		4.50	.289
		95% Confidence Interval for Mean	Lower Bound	3.58	
			Upper Bound	5.42	
		5% Trimmed Mean		4.50	
		Median		4.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
	T1	Mean		4.25	.250
		95% Confidence Interval for Mean	Lower Bound	3.45	
			Upper Bound	5.05	
		5% Trimmed Mean		4.22	
		Median		4.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
	T2	Mean		4.25	.250
		95% Confidence Interval for Mean	Lower Bound	3.45	
			Upper Bound	5.05	
		5% Trimmed Mean		4.22	
		Median		4.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		4	
		Maximum		5	
		Range		1	

	Interquartile Range		1	
	Skewness		2.000	1.014
	Kurtosis		4.000	2.619
T3	Mean		4.50	.289
	95% Confidence Interval for Mean	Lower Bound	3.58	
		Upper Bound	5.42	
	5% Trimmed Mean		4.50	
	Median		4.50	
	Variance		.333	
	Std. Deviation		.577	
	Minimum		4	
	Maximum		5	
	Range		1	
	Interquartile Range		1	
	Skewness		.000	1.014
	Kurtosis		-6.000	2.619
T4	Mean		4.25	.250
	95% Confidence Interval for Mean	Lower Bound	3.45	
		Upper Bound	5.05	
	5% Trimmed Mean		4.22	
	Median		4.00	
	Variance		.250	
	Std. Deviation		.500	
	Minimum		4	
	Maximum		5	
	Range		1	
	Interquartile Range		1	
	Skewness		2.000	1.014
	Kurtosis		4.000	2.619
T5	Mean		4.25	.250
	95% Confidence Interval for Mean	Lower Bound	3.45	
		Upper Bound	5.05	
	5% Trimmed Mean		4.22	
	Median		4.00	
	Variance		.250	
	Std. Deviation		.500	
	Minimum		4	
	Maximum		5	
	Range		1	
	Interquartile Range		1	

		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
D18	C	Mean		4.50	.289
		95% Confidence Interval for Mean	Lower Bound	3.58	
			Upper Bound	5.42	
		5% Trimmed Mean		4.50	
		Median		4.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
	T1	Mean		4.25	.250
		95% Confidence Interval for Mean	Lower Bound	3.45	
			Upper Bound	5.05	
		5% Trimmed Mean		4.22	
		Median		4.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
	T2	Mean		4.50	.289
		95% Confidence Interval for Mean	Lower Bound	3.58	
			Upper Bound	5.42	
		5% Trimmed Mean		4.50	
		Median		4.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014

		Kurtosis		-6.000	2.619
	T3	Mean		4.75	.250
		95% Confidence Interval for Mean	Lower Bound	3.95	
			Upper Bound	5.55	
		5% Trimmed Mean		4.78	
		Median		5.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		-2.000	1.014
		Kurtosis		4.000	2.619
	T4	Mean		4.75	.250
		95% Confidence Interval for Mean	Lower Bound	3.95	
			Upper Bound	5.55	
		5% Trimmed Mean		4.78	
		Median		5.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		-2.000	1.014
		Kurtosis		4.000	2.619
	T5	Mean		4.50	.289
		95% Confidence Interval for Mean	Lower Bound	3.58	
			Upper Bound	5.42	
		5% Trimmed Mean		4.50	
		Median		4.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619

D24	C	Mean		4.75	.479
		95% Confidence Interval for Mean	Lower Bound	3.23	
			Upper Bound	6.27	
		5% Trimmed Mean		4.72	
		Median		4.50	
		Variance		.917	
		Std. Deviation		.957	
		Minimum		4	
		Maximum		6	
		Range		2	
		Interquartile Range		2	
		Skewness		.855	1.014
		Kurtosis		-1.289	2.619
	T1	Mean		4.50	.289
		95% Confidence Interval for Mean	Lower Bound	3.58	
			Upper Bound	5.42	
		5% Trimmed Mean		4.50	
		Median		4.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
	T2	Mean		4.75	.250
		95% Confidence Interval for Mean	Lower Bound	3.95	
			Upper Bound	5.55	
		5% Trimmed Mean		4.78	
		Median		5.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		-2.000	1.014
		Kurtosis		4.000	2.619
	T3	Mean		4.75	.250

		95% Confidence Interval for Mean	Lower Bound	3.95	
			Upper Bound	5.55	
		5% Trimmed Mean		4.78	
		Median		5.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		-2.000	1.014
		Kurtosis		4.000	2.619
	T4	Mean		5.00	.408
		95% Confidence Interval for Mean	Lower Bound	3.70	
			Upper Bound	6.30	
		5% Trimmed Mean		5.00	
		Median		5.00	
		Variance		.667	
		Std. Deviation		.816	
		Minimum		4	
		Maximum		6	
		Range		2	
		Interquartile Range		2	
		Skewness		.000	1.014
		Kurtosis		1.500	2.619
	T5	Mean		4.25	.250
		95% Confidence Interval for Mean	Lower Bound	3.45	
			Upper Bound	5.05	
		5% Trimmed Mean		4.22	
		Median		4.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
D30	C	Mean		5.50	.289
		95% Confidence Interval for Mean	Lower Bound	4.58	

		Upper Bound	6.42	
	5% Trimmed Mean		5.50	
	Median		5.50	
	Variance		.333	
	Std. Deviation		.577	
	Minimum		5	
	Maximum		6	
	Range		1	
	Interquartile Range		1	
	Skewness		.000	1.014
	Kurtosis		-6.000	2.619
T1	Mean		5.00	.408
	95% Confidence Interval for Mean	Lower Bound	3.70	
		Upper Bound	6.30	
	5% Trimmed Mean		5.00	
	Median		5.00	
	Variance		.667	
	Std. Deviation		.816	
	Minimum		4	
	Maximum		6	
	Range		2	
	Interquartile Range		2	
	Skewness		.000	1.014
	Kurtosis		1.500	2.619
T2	Mean		5.00	.408
	95% Confidence Interval for Mean	Lower Bound	3.70	
		Upper Bound	6.30	
	5% Trimmed Mean		5.00	
	Median		5.00	
	Variance		.667	
	Std. Deviation		.816	
	Minimum		4	
	Maximum		6	
	Range		2	
	Interquartile Range		2	
	Skewness		.000	1.014
	Kurtosis		1.500	2.619
T3	Mean		5.00	.408
	95% Confidence Interval for Mean	Lower Bound	3.70	
		Upper Bound	6.30	

		5% Trimmed Mean		5.00	
		Median		5.00	
		Variance		.667	
		Std. Deviation		.816	
		Minimum		4	
		Maximum		6	
		Range		2	
		Interquartile Range		2	
		Skewness		.000	1.014
		Kurtosis		1.500	2.619
	T4	Mean		5.00	.000
		95% Confidence Interval for Mean	Lower Bound	5.00	
			Upper Bound	5.00	
		5% Trimmed Mean		5.00	
		Median		5.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		5	
		Maximum		5	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T5	Mean		4.50	.289
		95% Confidence Interval for Mean	Lower Bound	3.58	
			Upper Bound	5.42	
		5% Trimmed Mean		4.50	
		Median		4.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
D36	C	Mean		5.50	.289
		95% Confidence Interval for Mean	Lower Bound	4.58	
			Upper Bound	6.42	
		5% Trimmed Mean		5.50	

	Median		5.50	
	Variance		.333	
	Std. Deviation		.577	
	Minimum		5	
	Maximum		6	
	Range		1	
	Interquartile Range		1	
	Skewness		.000	1.014
	Kurtosis		-6.000	2.619
T1	Mean		5.25	.250
	95% Confidence Interval for Mean	Lower Bound	4.45	
		Upper Bound	6.05	
	5% Trimmed Mean		5.22	
	Median		5.00	
	Variance		.250	
	Std. Deviation		.500	
	Minimum		5	
	Maximum		6	
	Range		1	
	Interquartile Range		1	
	Skewness		2.000	1.014
	Kurtosis		4.000	2.619
T2	Mean		5.25	.250
	95% Confidence Interval for Mean	Lower Bound	4.45	
		Upper Bound	6.05	
	5% Trimmed Mean		5.22	
	Median		5.00	
	Variance		.250	
	Std. Deviation		.500	
	Minimum		5	
	Maximum		6	
	Range		1	
	Interquartile Range		1	
	Skewness		2.000	1.014
	Kurtosis		4.000	2.619
T3	Mean		5.00	.408
	95% Confidence Interval for Mean	Lower Bound	3.70	
		Upper Bound	6.30	
	5% Trimmed Mean		5.00	
	Median		5.00	

		Variance		.667	
		Std. Deviation		.816	
		Minimum		4	
		Maximum		6	
		Range		2	
		Interquartile Range		2	
		Skewness		.000	1.014
		Kurtosis		1.500	2.619
	T4	Mean		5.25	.250
		95% Confidence Interval for Mean	Lower Bound	4.45	
			Upper Bound	6.05	
		5% Trimmed Mean		5.22	
		Median		5.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		5	
		Maximum		6	
		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
	T5	Mean		4.50	.289
		95% Confidence Interval for Mean	Lower Bound	3.58	
			Upper Bound	5.42	
		5% Trimmed Mean		4.50	
		Median		4.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
D42	C	Mean		5.25	.479
		95% Confidence Interval for Mean	Lower Bound	3.73	
			Upper Bound	6.77	
		5% Trimmed Mean		5.28	
		Median		5.50	
		Variance		.917	

	Std. Deviation		.957	
	Minimum		4	
	Maximum		6	
	Range		2	
	Interquartile Range		2	
	Skewness		-.855	1.014
	Kurtosis		-1.289	2.619
T1	Mean		5.00	.408
	95% Confidence Interval for Mean	Lower Bound	3.70	
		Upper Bound	6.30	
	5% Trimmed Mean		5.00	
	Median		5.00	
	Variance		.667	
	Std. Deviation		.816	
	Minimum		4	
	Maximum		6	
	Range		2	
	Interquartile Range		2	
	Skewness		.000	1.014
	Kurtosis		1.500	2.619
T2	Mean		5.00	.408
	95% Confidence Interval for Mean	Lower Bound	3.70	
		Upper Bound	6.30	
	5% Trimmed Mean		5.00	
	Median		5.00	
	Variance		.667	
	Std. Deviation		.816	
	Minimum		4	
	Maximum		6	
	Range		2	
	Interquartile Range		2	
	Skewness		.000	1.014
	Kurtosis		1.500	2.619
T3	Mean		5.25	.250
	95% Confidence Interval for Mean	Lower Bound	4.45	
		Upper Bound	6.05	
	5% Trimmed Mean		5.22	
	Median		5.00	
	Variance		.250	
	Std. Deviation		.500	

		Minimum		5	
		Maximum		6	
		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
	T4	Mean		5.50	.289
		95% Confidence Interval for Mean	Lower Bound	4.58	
			Upper Bound	6.42	
		5% Trimmed Mean		5.50	
		Median		5.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		5	
		Maximum		6	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
	T5	Mean		5.25	.250
		95% Confidence Interval for Mean	Lower Bound	4.45	
			Upper Bound	6.05	
		5% Trimmed Mean		5.22	
		Median		5.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		5	
		Maximum		6	
		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
D48	C	Mean		5.00	.707
		95% Confidence Interval for Mean	Lower Bound	2.75	
			Upper Bound	7.25	
		5% Trimmed Mean		5.06	
		Median		5.50	
		Variance		2.000	
		Std. Deviation		1.414	
		Minimum		3	

	Maximum		6	
	Range		3	
	Interquartile Range		3	
	Skewness		-1.414	1.014
	Kurtosis		1.500	2.619
T1	Mean		4.75	.479
	95% Confidence Interval for Mean	Lower Bound	3.23	
		Upper Bound	6.27	
	5% Trimmed Mean		4.72	
	Median		4.50	
	Variance		.917	
	Std. Deviation		.957	
	Minimum		4	
	Maximum		6	
	Range		2	
	Interquartile Range		2	
	Skewness		.855	1.014
	Kurtosis		-1.289	2.619
T2	Mean		4.75	.479
	95% Confidence Interval for Mean	Lower Bound	3.23	
		Upper Bound	6.27	
	5% Trimmed Mean		4.72	
	Median		4.50	
	Variance		.917	
	Std. Deviation		.957	
	Minimum		4	
	Maximum		6	
	Range		2	
	Interquartile Range		2	
	Skewness		.855	1.014
	Kurtosis		-1.289	2.619
T3	Mean		4.75	.479
	95% Confidence Interval for Mean	Lower Bound	3.23	
		Upper Bound	6.27	
	5% Trimmed Mean		4.72	
	Median		4.50	
	Variance		.917	
	Std. Deviation		.957	
	Minimum		4	
	Maximum		6	

		Range		2	
		Interquartile Range		2	
		Skewness		.855	1.014
		Kurtosis		-1.289	2.619
	T4	Mean		5.25	.479
		95% Confidence Interval for Mean	Lower Bound	3.73	
			Upper Bound	6.77	
		5% Trimmed Mean		5.28	
		Median		5.50	
		Variance		.917	
		Std. Deviation		.957	
		Minimum		4	
		Maximum		6	
		Range		2	
		Interquartile Range		2	
		Skewness		-.855	1.014
		Kurtosis		-1.289	2.619
	T5	Mean		4.50	.500
		95% Confidence Interval for Mean	Lower Bound	2.91	
			Upper Bound	6.09	
		5% Trimmed Mean		4.44	
		Median		4.00	
		Variance		1.000	
		Std. Deviation		1.000	
		Minimum		4	
		Maximum		6	
		Range		2	
		Interquartile Range		2	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
D54	C	Mean		4.75	.479
		95% Confidence Interval for Mean	Lower Bound	3.23	
			Upper Bound	6.27	
		5% Trimmed Mean		4.72	
		Median		4.50	
		Variance		.917	
		Std. Deviation		.957	
		Minimum		4	
		Maximum		6	
		Range		2	

	Interquartile Range		2	
	Skewness		.855	1.014
	Kurtosis		-1.289	2.619
T1	Mean		4.50	.500
	95% Confidence Interval for Mean	Lower Bound	2.91	
		Upper Bound	6.09	
	5% Trimmed Mean		4.44	
	Median		4.00	
	Variance		1.000	
	Std. Deviation		1.000	
	Minimum		4	
	Maximum		6	
	Range		2	
	Interquartile Range		2	
	Skewness		2.000	1.014
	Kurtosis		4.000	2.619
T2	Mean		4.50	.289
	95% Confidence Interval for Mean	Lower Bound	3.58	
		Upper Bound	5.42	
	5% Trimmed Mean		4.50	
	Median		4.50	
	Variance		.333	
	Std. Deviation		.577	
	Minimum		4	
	Maximum		5	
	Range		1	
	Interquartile Range		1	
	Skewness		.000	1.014
	Kurtosis		-6.000	2.619
T3	Mean		4.00	.408
	95% Confidence Interval for Mean	Lower Bound	2.70	
		Upper Bound	5.30	
	5% Trimmed Mean		4.00	
	Median		4.00	
	Variance		.667	
	Std. Deviation		.816	
	Minimum		3	
	Maximum		5	
	Range		2	
	Interquartile Range		2	

		Skewness		.000	1.014
		Kurtosis		1.500	2.619
	T4	Mean		4.75	.479
		95% Confidence Interval for Mean	Lower Bound	3.23	
			Upper Bound	6.27	
		5% Trimmed Mean		4.72	
		Median		4.50	
		Variance		.917	
		Std. Deviation		.957	
		Minimum		4	
		Maximum		6	
		Range		2	
		Interquartile Range		2	
		Skewness		.855	1.014
		Kurtosis		-1.289	2.619
	T5	Mean		3.75	.479
		95% Confidence Interval for Mean	Lower Bound	2.23	
			Upper Bound	5.27	
		5% Trimmed Mean		3.72	
		Median		3.50	
		Variance		.917	
		Std. Deviation		.957	
		Minimum		3	
		Maximum		5	
		Range		2	
		Interquartile Range		2	
		Skewness		.855	1.014
		Kurtosis		-1.289	2.619
D60	C	Mean		4.50	.289
		95% Confidence Interval for Mean	Lower Bound	3.58	
			Upper Bound	5.42	
		5% Trimmed Mean		4.50	
		Median		4.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014

		Kurtosis		-6.000	2.619
	T1	Mean		4.50	.289
		95% Confidence Interval for Mean	Lower Bound	3.58	
			Upper Bound	5.42	
		5% Trimmed Mean		4.50	
		Median		4.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
	T2	Mean		4.25	.250
		95% Confidence Interval for Mean	Lower Bound	3.45	
			Upper Bound	5.05	
		5% Trimmed Mean		4.22	
		Median		4.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
	T3	Mean		3.75	.479
		95% Confidence Interval for Mean	Lower Bound	2.23	
			Upper Bound	5.27	
		5% Trimmed Mean		3.72	
		Median		3.50	
		Variance		.917	
		Std. Deviation		.957	
		Minimum		3	
		Maximum		5	
		Range		2	
		Interquartile Range		2	
		Skewness		.855	1.014
		Kurtosis		-1.289	2.619

		Mean		4.50	.289
		95% Confidence Interval for Mean	Lower Bound	3.58	
			Upper Bound	5.42	
		5% Trimmed Mean		4.50	
		Median		4.50	
		Variance		.333	
	T4	Std. Deviation		.577	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
		Mean		3.50	.289
		95% Confidence Interval for Mean	Lower Bound	2.58	
			Upper Bound	4.42	
		5% Trimmed Mean		3.50	
		Median		3.50	
		Variance		.333	
	T5	Std. Deviation		.577	
		Minimum		3	
		Maximum		4	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
D66		Mean		4.75	.479
		95% Confidence Interval for Mean	Lower Bound	3.23	
			Upper Bound	6.27	
		5% Trimmed Mean		4.72	
		Median		4.50	
		Variance		.917	
	C	Std. Deviation		.957	
		Minimum		4	
		Maximum		6	
		Range		2	
		Interquartile Range		2	
		Skewness		.855	1.014
		Kurtosis		-1.289	2.619
	T1	Mean		4.00	.577

		95% Confidence Interval for Mean	Lower Bound	2.16	
			Upper Bound	5.84	
		5% Trimmed Mean		4.00	
		Median		4.00	
		Variance		1.333	
		Std. Deviation		1.155	
		Minimum		3	
		Maximum		5	
		Range		2	
		Interquartile Range		2	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
	T2	Mean		4.25	.479
		95% Confidence Interval for Mean	Lower Bound	2.73	
			Upper Bound	5.77	
		5% Trimmed Mean		4.28	
		Median		4.50	
		Variance		.917	
		Std. Deviation		.957	
		Minimum		3	
		Maximum		5	
		Range		2	
		Interquartile Range		2	
		Skewness		-.855	1.014
		Kurtosis		-1.289	2.619
	T3	Mean		4.50	.289
		95% Confidence Interval for Mean	Lower Bound	3.58	
			Upper Bound	5.42	
		5% Trimmed Mean		4.50	
		Median		4.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
	T4	Mean		4.75	.250
		95% Confidence Interval for Mean	Lower Bound	3.95	

			Upper Bound	5.55	
		5% Trimmed Mean		4.78	
		Median		5.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		4	
		Maximum		5	
		Range		1	
		Interquartile Range		1	
		Skewness		-2.000	1.014
		Kurtosis		4.000	2.619
	T5	Mean		3.50	.289
		95% Confidence Interval for Mean	Lower Bound	2.58	
			Upper Bound	4.42	
		5% Trimmed Mean		3.50	
		Median		3.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		3	
		Maximum		4	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619

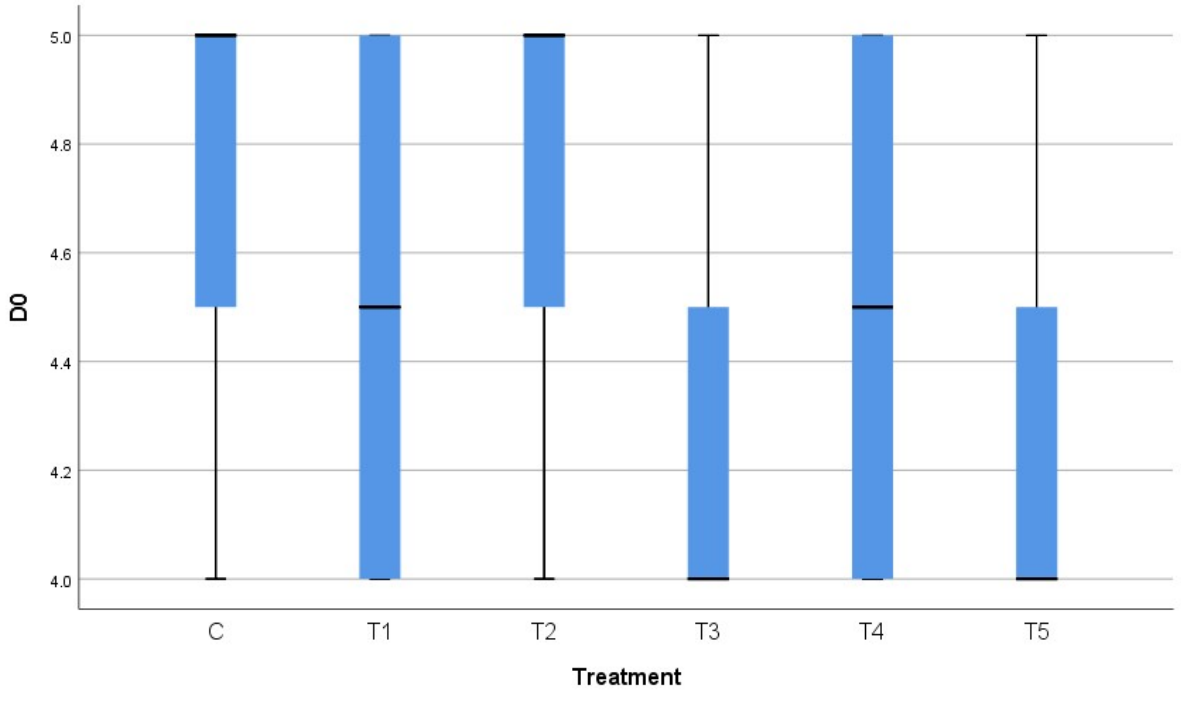
Tests of Normality

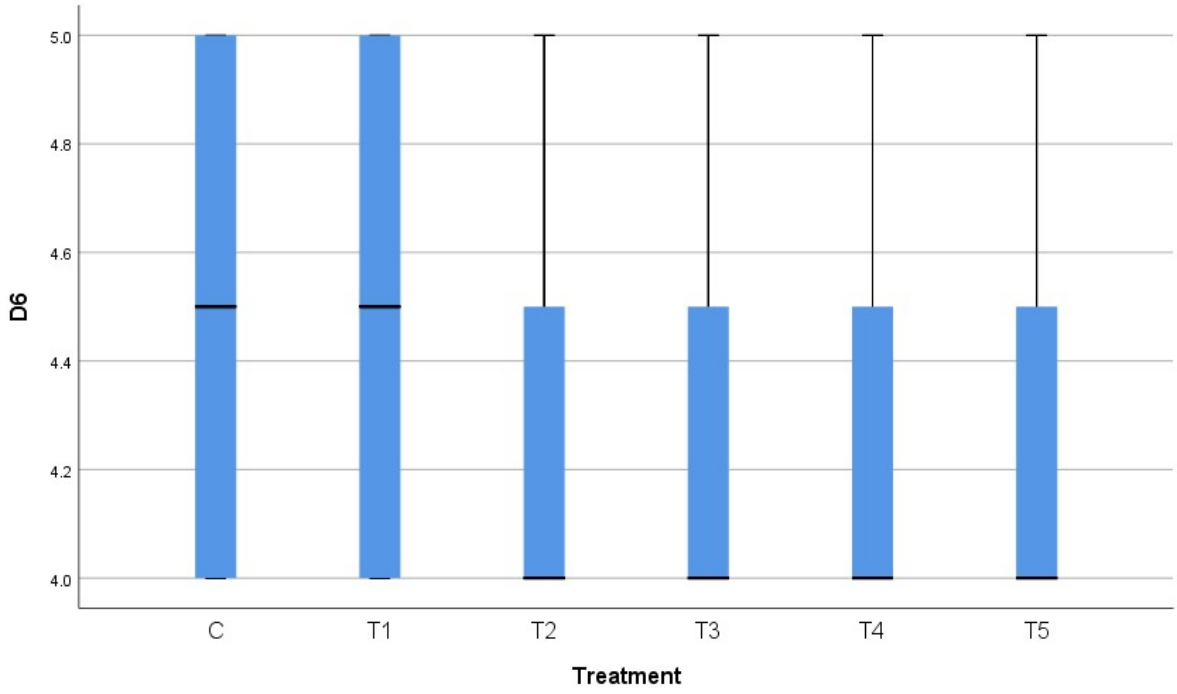
	Treatment	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
D0	C	.441	4	.	.630	4	.001
	T1	.307	4	.	.729	4	.024
	T2	.441	4	.	.630	4	.001
	T3	.441	4	.	.630	4	.001
	T4	.307	4	.	.729	4	.024
	T5	.441	4	.	.630	4	.001
D6	C	.307	4	.	.729	4	.024
	T1	.307	4	.	.729	4	.024
	T2	.441	4	.	.630	4	.001
	T3	.441	4	.	.630	4	.001
	T4	.441	4	.	.630	4	.001

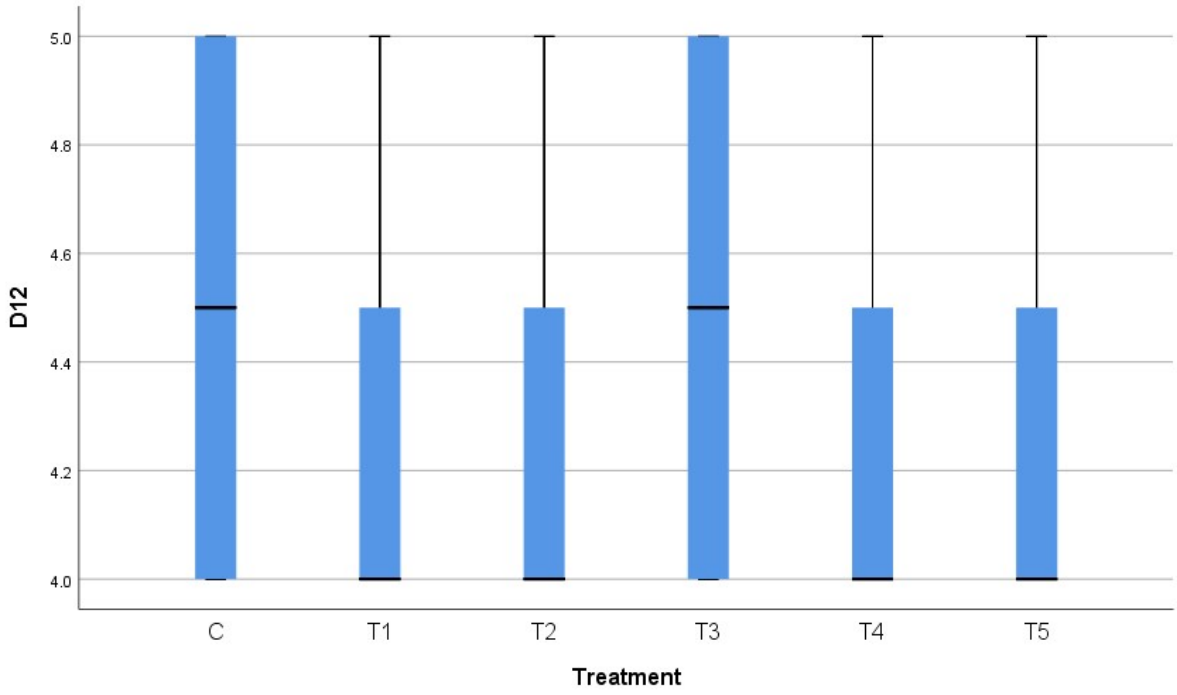
	T5	.441	4	.	.630	4	.001
D12	C	.307	4	.	.729	4	.024
	T1	.441	4	.	.630	4	.001
	T2	.441	4	.	.630	4	.001
	T3	.307	4	.	.729	4	.024
	T4	.441	4	.	.630	4	.001
	T5	.441	4	.	.630	4	.001
D18	C	.307	4	.	.729	4	.024
	T1	.441	4	.	.630	4	.001
	T2	.307	4	.	.729	4	.024
	T3	.441	4	.	.630	4	.001
	T4	.441	4	.	.630	4	.001
	T5	.307	4	.	.729	4	.024
D24	C	.283	4	.	.863	4	.272
	T1	.307	4	.	.729	4	.024
	T2	.441	4	.	.630	4	.001
	T3	.441	4	.	.630	4	.001
	T4	.250	4	.	.945	4	.683
	T5	.441	4	.	.630	4	.001
D30	C	.307	4	.	.729	4	.024
	T1	.250	4	.	.945	4	.683
	T2	.250	4	.	.945	4	.683
	T3	.250	4	.	.945	4	.683
	T4	.	4	.	.	4	.
	T5	.307	4	.	.729	4	.024
D36	C	.307	4	.	.729	4	.024
	T1	.441	4	.	.630	4	.001
	T2	.441	4	.	.630	4	.001
	T3	.250	4	.	.945	4	.683
	T4	.441	4	.	.630	4	.001
	T5	.307	4	.	.729	4	.024
D42	C	.283	4	.	.863	4	.272
	T1	.250	4	.	.945	4	.683
	T2	.250	4	.	.945	4	.683
	T3	.441	4	.	.630	4	.001
	T4	.307	4	.	.729	4	.024
	T5	.441	4	.	.630	4	.001
D48	C	.260	4	.	.827	4	.161
	T1	.283	4	.	.863	4	.272
	T2	.283	4	.	.863	4	.272

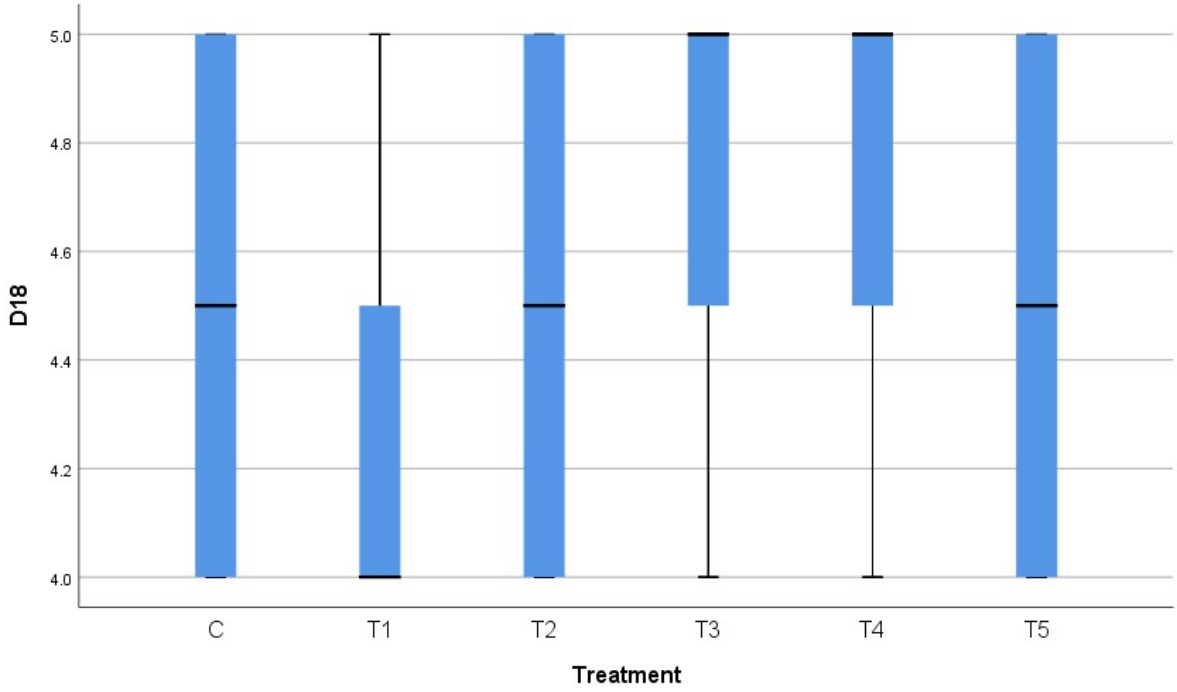
	T3	.283	4	.	.863	4	.272
	T4	.283	4	.	.863	4	.272
	T5	.441	4	.	.630	4	.001
D54	C	.283	4	.	.863	4	.272
	T1	.441	4	.	.630	4	.001
	T2	.307	4	.	.729	4	.024
	T3	.250	4	.	.945	4	.683
	T4	.283	4	.	.863	4	.272
	T5	.283	4	.	.863	4	.272
D60	C	.307	4	.	.729	4	.024
	T1	.307	4	.	.729	4	.024
	T2	.441	4	.	.630	4	.001
	T3	.283	4	.	.863	4	.272
	T4	.307	4	.	.729	4	.024
	T5	.307	4	.	.729	4	.024
D66	C	.283	4	.	.863	4	.272
	T1	.307	4	.	.729	4	.024
	T2	.283	4	.	.863	4	.272
	T3	.307	4	.	.729	4	.024
	T4	.441	4	.	.630	4	.001
	T5	.307	4	.	.729	4	.024

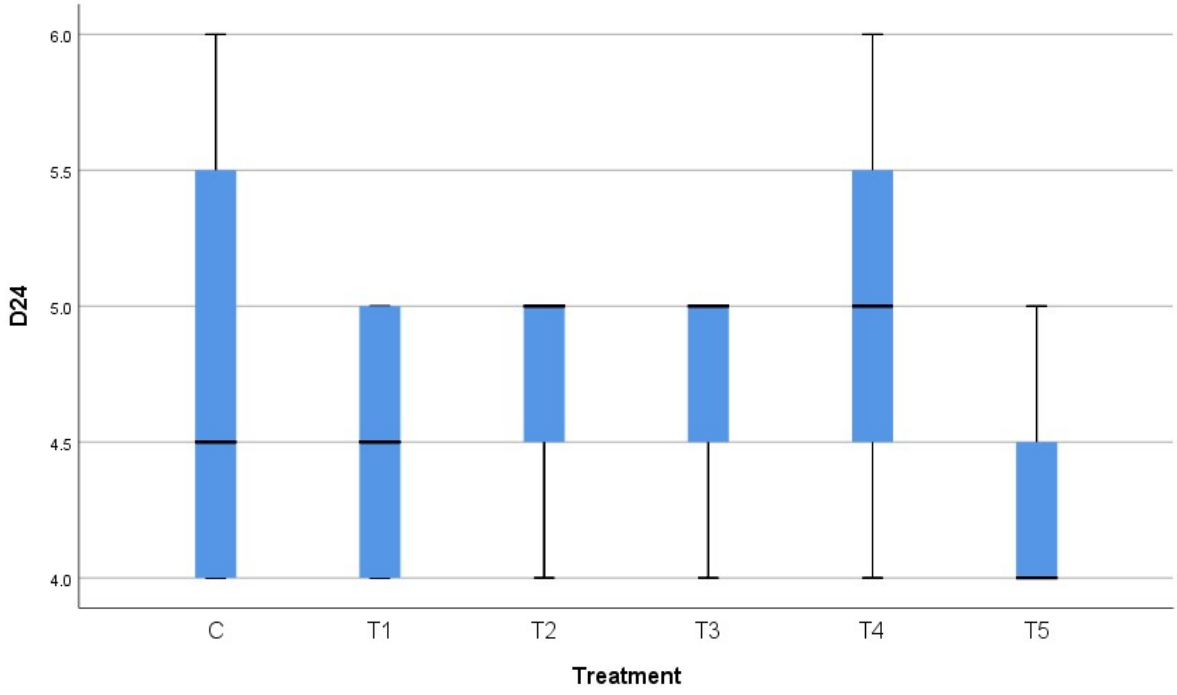
a. Lilliefors Significance Correction

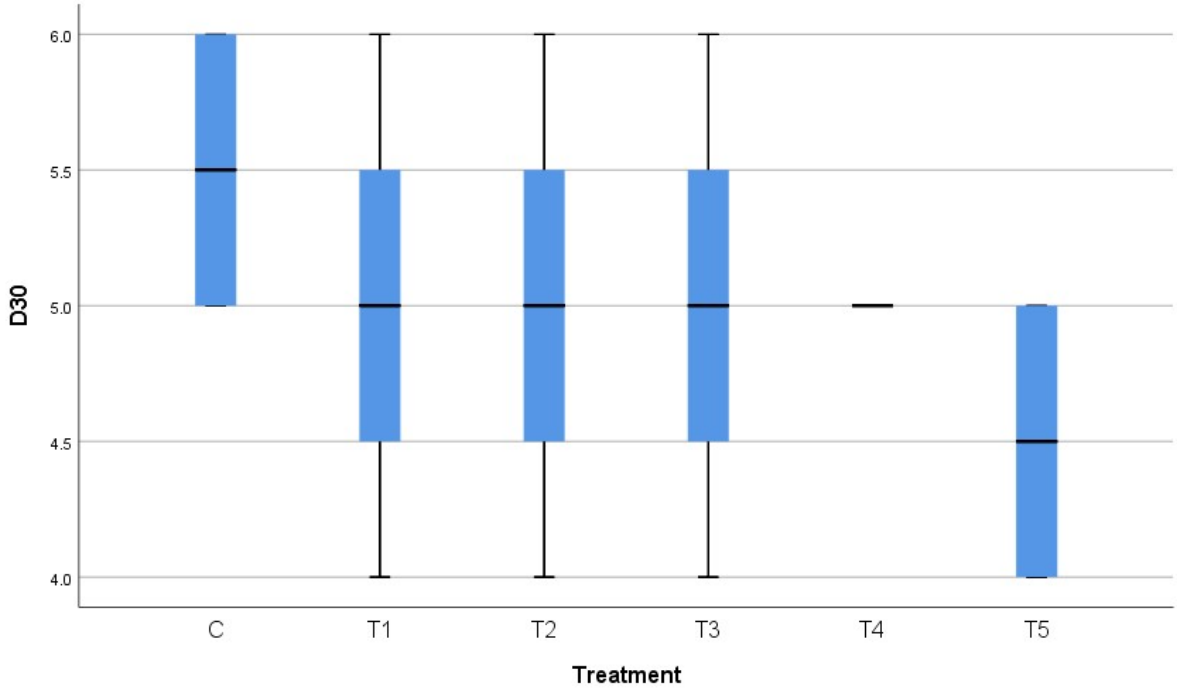


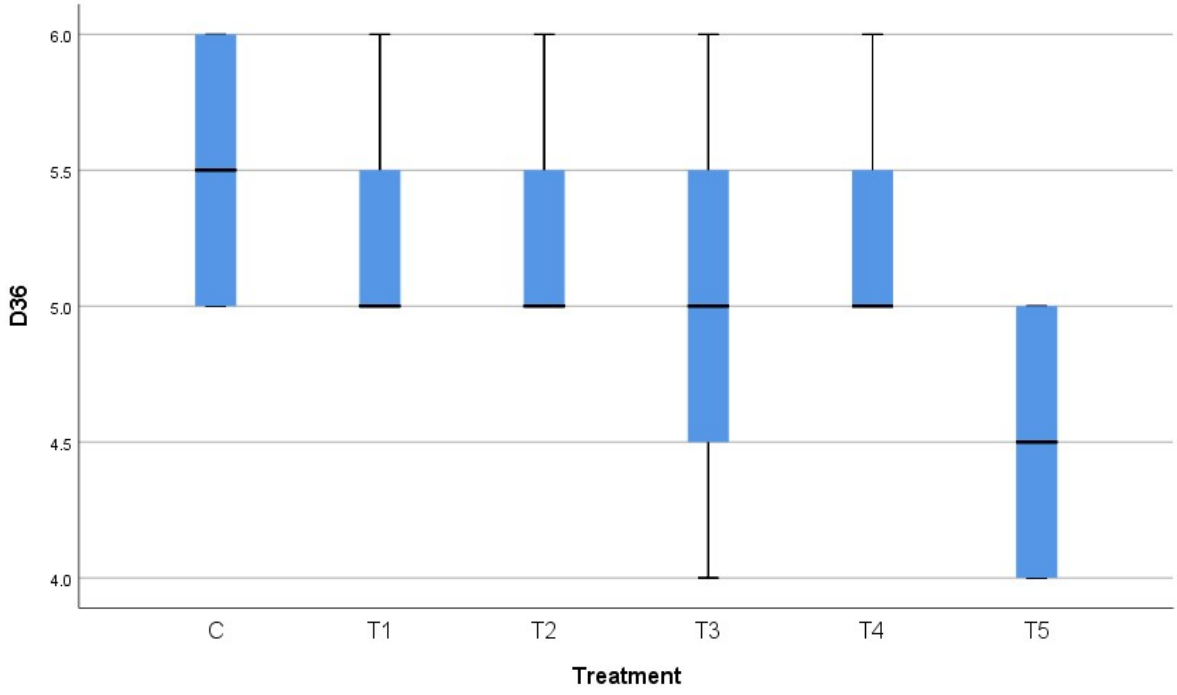

D6
5.0
4.8
4.6
4.4
4.2
4.0
C
T1
T2
T3
T4
T5
Treatment

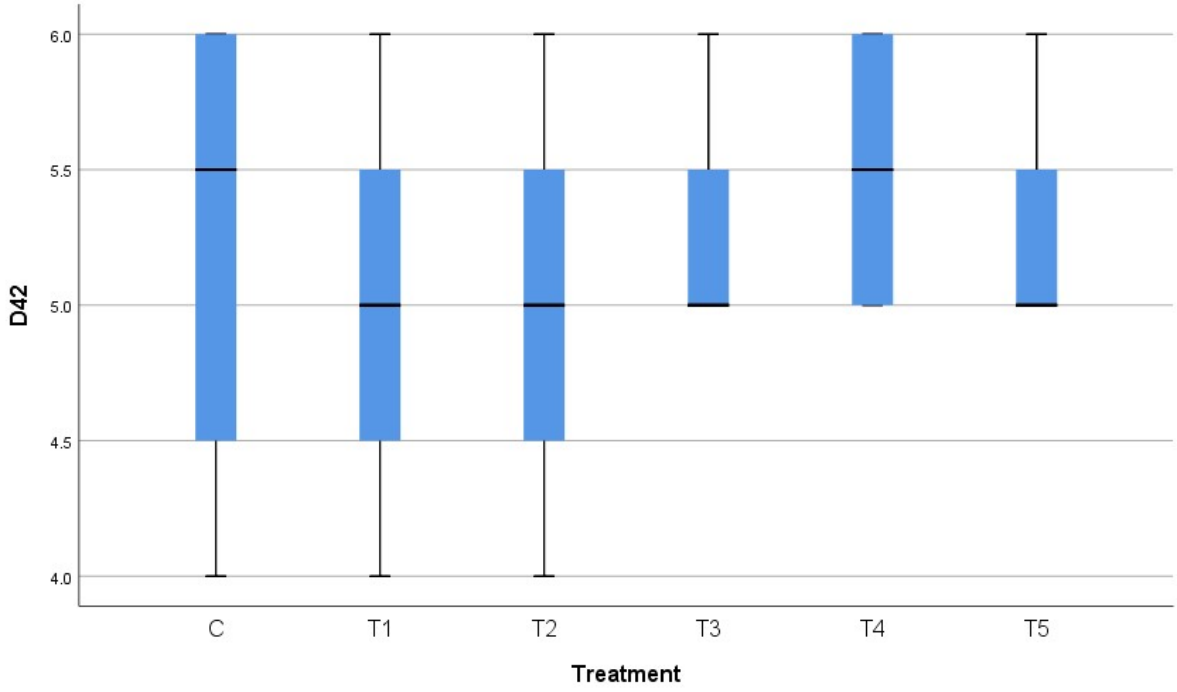

D12
5.0
4.8
4.6
4.4
4.2
4.0
C
T1
T2
T3
T4
T5
Treatment

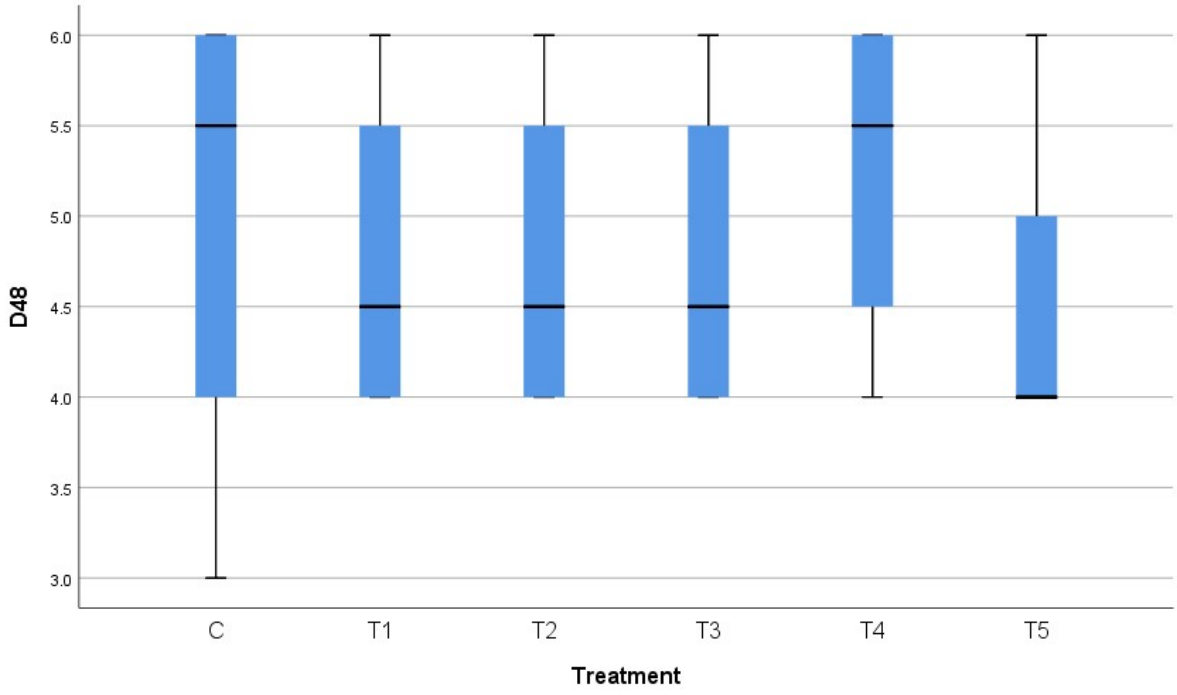

D18
5.0
4.8
4.6
4.4
4.2
4.0
C
T1
T2
T3
T4
T5
Treatment

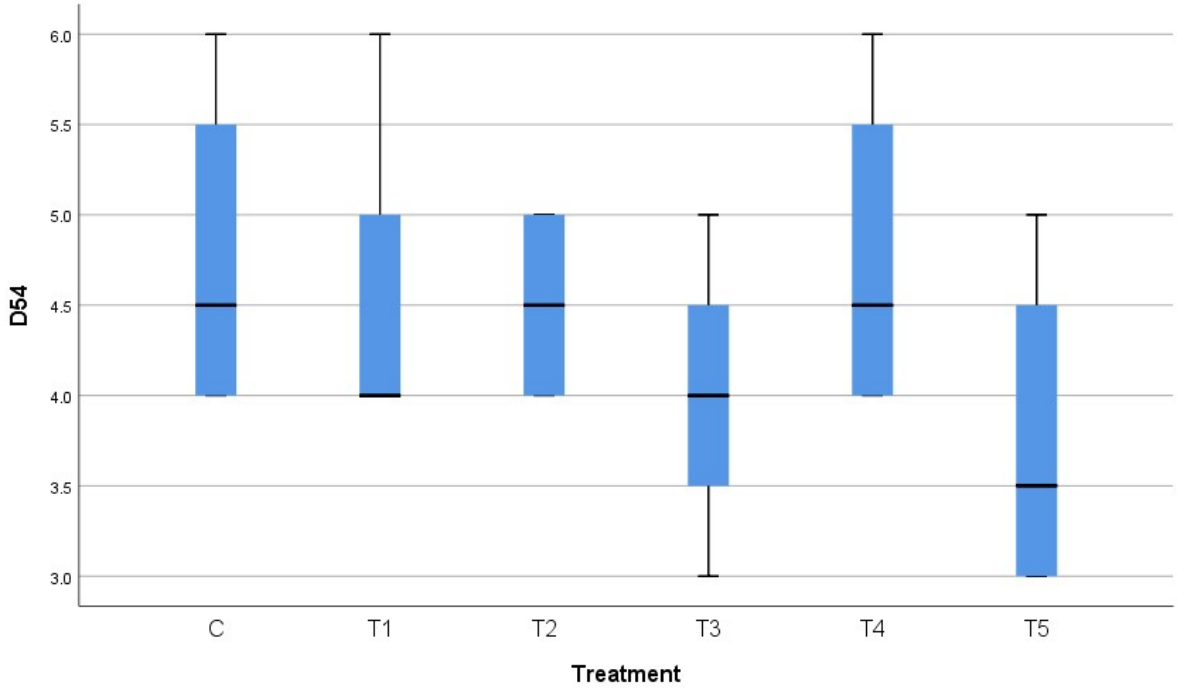

D24
6.0
5.5
5.0
4.5
4.0
C
T1
T2
T3
T4
T5
Treatment

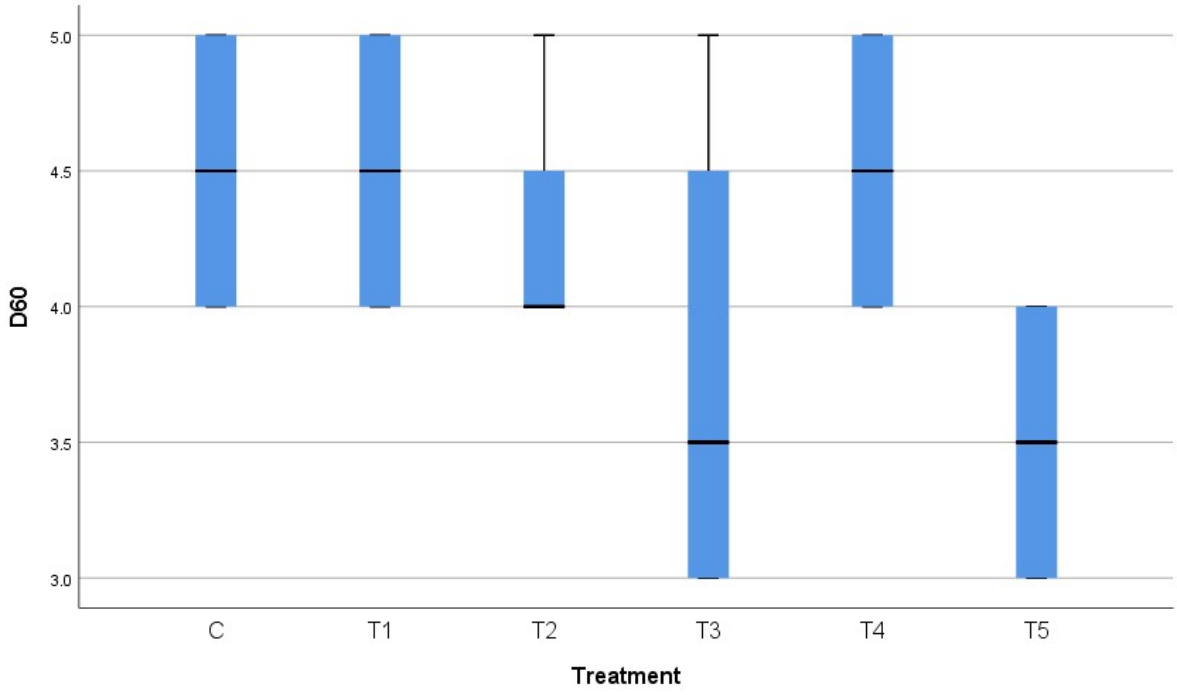

D30
6.0
5.5
5.0
4.5
4.0
C
T1
T2
T3
T4
T5
Treatment

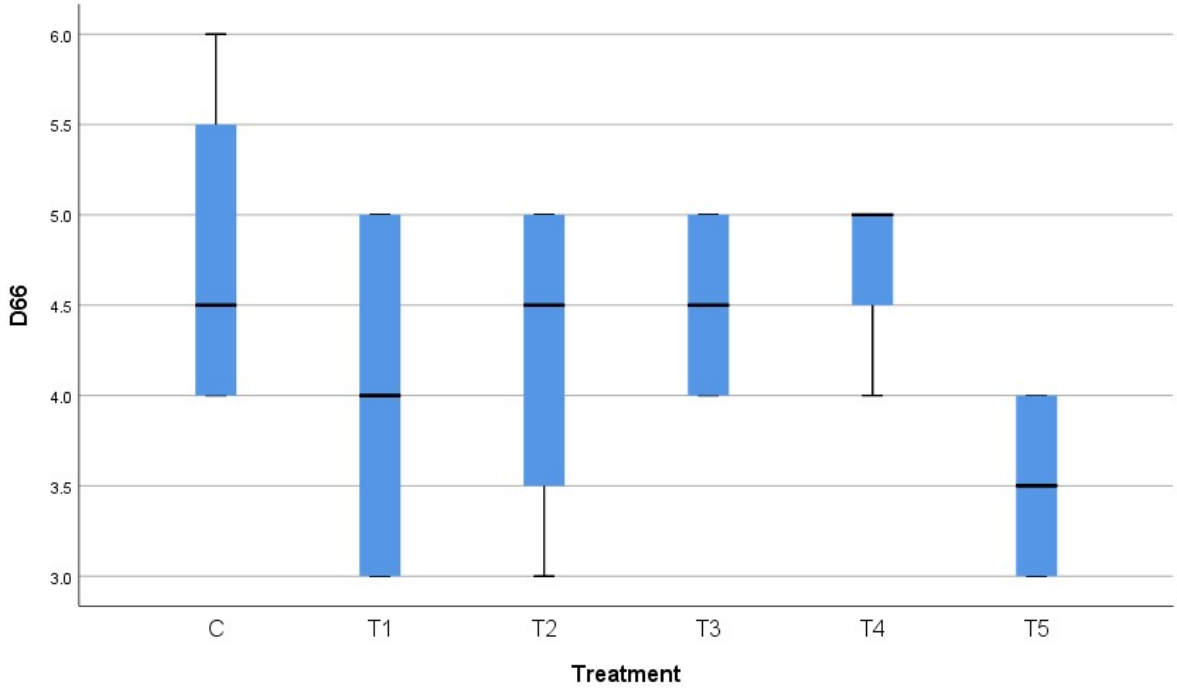

D36
6.0
5.5
5.0
4.5
4.0
C
T1
T2
T3
T4
T5
Treatment


D42
6.0
5.5
5.0
4.5
4.0
C
T1
T2
T3
T4
T5
Treatment


D48
6.0
5.5
5.0
4.5
4.0
3.5
3.0
C
T1
T2
T3
T4
T5
Treatment


D54
6.0
5.5
5.0
4.5
4.0
3.5
3.0
C
T1
T2
T3
T4
T5
Treatment


D60
5.0
4.5
4.0
3.5
3.0
C
T1
T2
T3
T4
T5
Treatment


D66
6.0
5.5
5.0
4.5
4.0
3.5
3.0
C
T1
T2
T3
T4
T5
Treatment

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of D0 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.574	Retain the null hypothesis.
2	The distribution of D6 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.920	Retain the null hypothesis.
3	The distribution of D12 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.920	Retain the null hypothesis.
4	The distribution of D18 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.741	Retain the null hypothesis.
5	The distribution of D24 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.664	Retain the null hypothesis.
6	The distribution of D30 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.467	Retain the null hypothesis.
7	The distribution of D36 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.310	Retain the null hypothesis.
8	The distribution of D42 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.912	Retain the null hypothesis.
9	The distribution of D48 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.898	Retain the null hypothesis.
10	The distribution of D54 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.543	Retain the null hypothesis.

Asymptotic significances are displayed. The significance level is .05.

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
11	The distribution of D60 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.204	Retain the null hypothesis.
12	The distribution of D66 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.302	Retain the null hypothesis.

Asymptotic significances are displayed. The significance level is .05.

Supplementary Information – Appendix C

Statistical analysis of coral attachment scores

Case Processing Summary

	Treatment	Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
D0	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D6	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D12	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D18	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D24	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%

D30	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D36	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D42	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D48	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D54	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D60	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%
	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%
D66	C	4	100.0%	0	0.0%	4	100.0%
	T1	4	100.0%	0	0.0%	4	100.0%
	T2	4	100.0%	0	0.0%	4	100.0%
	T3	4	100.0%	0	0.0%	4	100.0%

	T4	4	100.0%	0	0.0%	4	100.0%
	T5	4	100.0%	0	0.0%	4	100.0%

Descriptives

	Treatment			Statistic	Std. Error
D0	C	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T1	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T2	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	

		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T3	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T4	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T5	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	

		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
D6	C	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T1	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T2	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	

	Interquartile Range		0	
	Skewness		.	.
	Kurtosis		.	.
T3	Mean		.00	.000
	95% Confidence Interval for Mean	Lower Bound	.00	
		Upper Bound	.00	
	5% Trimmed Mean		.00	
	Median		.00	
	Variance		.000	
	Std. Deviation		.000	
	Minimum		0	
	Maximum		0	
	Range		0	
	Interquartile Range		0	
	Skewness		.	.
	Kurtosis		.	.
T4	Mean		.00	.000
	95% Confidence Interval for Mean	Lower Bound	.00	
		Upper Bound	.00	
	5% Trimmed Mean		.00	
	Median		.00	
	Variance		.000	
	Std. Deviation		.000	
	Minimum		0	
	Maximum		0	
	Range		0	
	Interquartile Range		0	
	Skewness		.	.
	Kurtosis		.	.
T5	Mean		.00	.000
	95% Confidence Interval for Mean	Lower Bound	.00	
		Upper Bound	.00	
	5% Trimmed Mean		.00	
	Median		.00	
	Variance		.000	
	Std. Deviation		.000	
	Minimum		0	
	Maximum		0	
	Range		0	
	Interquartile Range		0	

		Skewness		.	.
		Kurtosis		.	.
D12	C	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T1	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T2	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.

		Kurtosis		.	.
T3	Mean			.00	.000
	95% Confidence Interval for Mean		Lower Bound	.00	
			Upper Bound	.00	
	5% Trimmed Mean			.00	
	Median			.00	
	Variance			.000	
	Std. Deviation			.000	
	Minimum			0	
	Maximum			0	
	Range			0	
	Interquartile Range			0	
	Skewness			.	.
	Kurtosis			.	.
T4	Mean			.00	.000
	95% Confidence Interval for Mean		Lower Bound	.00	
			Upper Bound	.00	
	5% Trimmed Mean			.00	
	Median			.00	
	Variance			.000	
	Std. Deviation			.000	
	Minimum			0	
	Maximum			0	
	Range			0	
	Interquartile Range			0	
	Skewness			.	.
	Kurtosis			.	.
T5	Mean			.00	.000
	95% Confidence Interval for Mean		Lower Bound	.00	
			Upper Bound	.00	
	5% Trimmed Mean			.00	
	Median			.00	
	Variance			.000	
	Std. Deviation			.000	
	Minimum			0	
	Maximum			0	
	Range			0	
	Interquartile Range			0	
	Skewness			.	.
	Kurtosis			.	.

D18	C	Mean		.25	.250
		95% Confidence Interval for Mean	Lower Bound	-.55	
			Upper Bound	1.05	
		5% Trimmed Mean		.22	
		Median		.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		0	
		Maximum		1	
		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
	T1	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T2	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T3	Mean		.00	.000

		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T4	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T5	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
D24	C	Mean		.50	.289
		95% Confidence Interval for Mean	Lower Bound	-.42	

		Upper Bound	1.42	
	5% Trimmed Mean		.50	
	Median		.50	
	Variance		.333	
	Std. Deviation		.577	
	Minimum		0	
	Maximum		1	
	Range		1	
	Interquartile Range		1	
	Skewness		.000	1.014
	Kurtosis		-6.000	2.619
T1	Mean		.25	.250
	95% Confidence Interval for Mean	Lower Bound	-.55	
		Upper Bound	1.05	
	5% Trimmed Mean		.22	
	Median		.00	
	Variance		.250	
	Std. Deviation		.500	
	Minimum		0	
	Maximum		1	
	Range		1	
	Interquartile Range		1	
	Skewness		2.000	1.014
	Kurtosis		4.000	2.619
T2	Mean		.25	.250
	95% Confidence Interval for Mean	Lower Bound	-.55	
		Upper Bound	1.05	
	5% Trimmed Mean		.22	
	Median		.00	
	Variance		.250	
	Std. Deviation		.500	
	Minimum		0	
	Maximum		1	
	Range		1	
	Interquartile Range		1	
	Skewness		2.000	1.014
	Kurtosis		4.000	2.619
T3	Mean		.25	.250
	95% Confidence Interval for Mean	Lower Bound	-.55	
		Upper Bound	1.05	

		5% Trimmed Mean		.22	
		Median		.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		0	
		Maximum		1	
		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
	T4	Mean		.50	.289
		95% Confidence Interval for Mean	Lower Bound	-.42	
			Upper Bound	1.42	
		5% Trimmed Mean		.50	
		Median		.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		0	
		Maximum		1	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
	T5	Mean		.00	.000
		95% Confidence Interval for Mean	Lower Bound	.00	
			Upper Bound	.00	
		5% Trimmed Mean		.00	
		Median		.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		0	
		Maximum		0	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
D30	C	Mean		1.00	.408
		95% Confidence Interval for Mean	Lower Bound	-.30	
			Upper Bound	2.30	
		5% Trimmed Mean		1.00	

	Median		1.00	
	Variance		.667	
	Std. Deviation		.816	
	Minimum		0	
	Maximum		2	
	Range		2	
	Interquartile Range		2	
	Skewness		.000	1.014
	Kurtosis		1.500	2.619
T1	Mean		.25	.250
	95% Confidence Interval for Mean	Lower Bound	-.55	
		Upper Bound	1.05	
	5% Trimmed Mean		.22	
	Median		.00	
	Variance		.250	
	Std. Deviation		.500	
	Minimum		0	
	Maximum		1	
	Range		1	
	Interquartile Range		1	
	Skewness		2.000	1.014
	Kurtosis		4.000	2.619
T2	Mean		.00	.000
	95% Confidence Interval for Mean	Lower Bound	.00	
		Upper Bound	.00	
	5% Trimmed Mean		.00	
	Median		.00	
	Variance		.000	
	Std. Deviation		.000	
	Minimum		0	
	Maximum		0	
	Range		0	
	Interquartile Range		0	
	Skewness		.	.
	Kurtosis		.	.
T3	Mean		.50	.289
	95% Confidence Interval for Mean	Lower Bound	-.42	
		Upper Bound	1.42	
	5% Trimmed Mean		.50	
	Median		.50	

		Variance		.333	
		Std. Deviation		.577	
		Minimum		0	
		Maximum		1	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
	T4	Mean		.75	.250
		95% Confidence Interval for Mean	Lower Bound	-.05	
			Upper Bound	1.55	
		5% Trimmed Mean		.78	
		Median		1.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		0	
		Maximum		1	
		Range		1	
		Interquartile Range		1	
		Skewness		-2.000	1.014
		Kurtosis		4.000	2.619
	T5	Mean		.25	.250
		95% Confidence Interval for Mean	Lower Bound	-.55	
			Upper Bound	1.05	
		5% Trimmed Mean		.22	
		Median		.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		0	
		Maximum		1	
		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
D36	C	Mean		1.00	.408
		95% Confidence Interval for Mean	Lower Bound	-.30	
			Upper Bound	2.30	
		5% Trimmed Mean		1.00	
		Median		1.00	
		Variance		.667	

	Std. Deviation		.816	
	Minimum		0	
	Maximum		2	
	Range		2	
	Interquartile Range		2	
	Skewness		.000	1.014
	Kurtosis		1.500	2.619
T1	Mean		.25	.250
	95% Confidence Interval for Mean	Lower Bound	-.55	
		Upper Bound	1.05	
	5% Trimmed Mean		.22	
	Median		.00	
	Variance		.250	
	Std. Deviation		.500	
	Minimum		0	
	Maximum		1	
	Range		1	
	Interquartile Range		1	
	Skewness		2.000	1.014
	Kurtosis		4.000	2.619
T2	Mean		.50	.289
	95% Confidence Interval for Mean	Lower Bound	-.42	
		Upper Bound	1.42	
	5% Trimmed Mean		.50	
	Median		.50	
	Variance		.333	
	Std. Deviation		.577	
	Minimum		0	
	Maximum		1	
	Range		1	
	Interquartile Range		1	
	Skewness		.000	1.014
	Kurtosis		-6.000	2.619
T3	Mean		1.00	.000
	95% Confidence Interval for Mean	Lower Bound	1.00	
		Upper Bound	1.00	
	5% Trimmed Mean		1.00	
	Median		1.00	
	Variance		.000	
	Std. Deviation		.000	

		Minimum		1	
		Maximum		1	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T4	Mean		.75	.479
		95% Confidence Interval for Mean	Lower Bound	-.77	
			Upper Bound	2.27	
		5% Trimmed Mean		.72	
		Median		.50	
		Variance		.917	
		Std. Deviation		.957	
		Minimum		0	
		Maximum		2	
		Range		2	
		Interquartile Range		2	
		Skewness		.855	1.014
		Kurtosis		-1.289	2.619
	T5	Mean		.75	.479
		95% Confidence Interval for Mean	Lower Bound	-.77	
			Upper Bound	2.27	
		5% Trimmed Mean		.72	
		Median		.50	
		Variance		.917	
		Std. Deviation		.957	
		Minimum		0	
		Maximum		2	
		Range		2	
		Interquartile Range		2	
		Skewness		.855	1.014
		Kurtosis		-1.289	2.619
D42	C	Mean		1.00	.408
		95% Confidence Interval for Mean	Lower Bound	-.30	
			Upper Bound	2.30	
		5% Trimmed Mean		1.00	
		Median		1.00	
		Variance		.667	
		Std. Deviation		.816	
		Minimum		0	

	Maximum		2	
	Range		2	
	Interquartile Range		2	
	Skewness		.000	1.014
	Kurtosis		1.500	2.619
T1	Mean		.50	.289
	95% Confidence Interval for Mean	Lower Bound	-.42	
		Upper Bound	1.42	
	5% Trimmed Mean		.50	
	Median		.50	
	Variance		.333	
	Std. Deviation		.577	
	Minimum		0	
	Maximum		1	
	Range		1	
	Interquartile Range		1	
	Skewness		.000	1.014
	Kurtosis		-6.000	2.619
T2	Mean		.50	.289
	95% Confidence Interval for Mean	Lower Bound	-.42	
		Upper Bound	1.42	
	5% Trimmed Mean		.50	
	Median		.50	
	Variance		.333	
	Std. Deviation		.577	
	Minimum		0	
	Maximum		1	
	Range		1	
	Interquartile Range		1	
	Skewness		.000	1.014
	Kurtosis		-6.000	2.619
T3	Mean		1.00	.000
	95% Confidence Interval for Mean	Lower Bound	1.00	
		Upper Bound	1.00	
	5% Trimmed Mean		1.00	
	Median		1.00	
	Variance		.000	
	Std. Deviation		.000	
	Minimum		1	
	Maximum		1	

		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T4	Mean		1.25	.250
		95% Confidence Interval for Mean	Lower Bound	.45	
			Upper Bound	2.05	
		5% Trimmed Mean		1.22	
		Median		1.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		1	
		Maximum		2	
		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
	T5	Mean		.50	.289
		95% Confidence Interval for Mean	Lower Bound	-.42	
			Upper Bound	1.42	
		5% Trimmed Mean		.50	
		Median		.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		0	
		Maximum		1	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
D48	C	Mean		1.25	.250
		95% Confidence Interval for Mean	Lower Bound	.45	
			Upper Bound	2.05	
		5% Trimmed Mean		1.22	
		Median		1.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		1	
		Maximum		2	
		Range		1	

	Interquartile Range		1	
	Skewness		2.000	1.014
	Kurtosis		4.000	2.619
T1	Mean		1.00	.000
	95% Confidence Interval for Mean	Lower Bound	1.00	
		Upper Bound	1.00	
	5% Trimmed Mean		1.00	
	Median		1.00	
	Variance		.000	
	Std. Deviation		.000	
	Minimum		1	
	Maximum		1	
	Range		0	
	Interquartile Range		0	
	Skewness		.	.
	Kurtosis		.	.
T2	Mean		1.25	.250
	95% Confidence Interval for Mean	Lower Bound	.45	
		Upper Bound	2.05	
	5% Trimmed Mean		1.22	
	Median		1.00	
	Variance		.250	
	Std. Deviation		.500	
	Minimum		1	
	Maximum		2	
	Range		1	
	Interquartile Range		1	
	Skewness		2.000	1.014
	Kurtosis		4.000	2.619
T3	Mean		1.00	.000
	95% Confidence Interval for Mean	Lower Bound	1.00	
		Upper Bound	1.00	
	5% Trimmed Mean		1.00	
	Median		1.00	
	Variance		.000	
	Std. Deviation		.000	
	Minimum		1	
	Maximum		1	
	Range		0	
	Interquartile Range		0	

		Skewness		.	.
		Kurtosis		.	.
	T4	Mean		1.50	.289
		95% Confidence Interval for Mean	Lower Bound	.58	
			Upper Bound	2.42	
		5% Trimmed Mean		1.50	
		Median		1.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		1	
		Maximum		2	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
	T5	Mean		.75	.479
		95% Confidence Interval for Mean	Lower Bound	-.77	
			Upper Bound	2.27	
		5% Trimmed Mean		.72	
		Median		.50	
		Variance		.917	
		Std. Deviation		.957	
		Minimum		0	
		Maximum		2	
		Range		2	
		Interquartile Range		2	
		Skewness		.855	1.014
		Kurtosis		-1.289	2.619
D54	C	Mean		1.25	.250
		95% Confidence Interval for Mean	Lower Bound	.45	
			Upper Bound	2.05	
		5% Trimmed Mean		1.22	
		Median		1.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		1	
		Maximum		2	
		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014

		Kurtosis		4.000	2.619
	T1	Mean		1.00	.000
		95% Confidence Interval for Mean	Lower Bound	1.00	
			Upper Bound	1.00	
		5% Trimmed Mean		1.00	
		Median		1.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		1	
		Maximum		1	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T2	Mean		1.00	.000
		95% Confidence Interval for Mean	Lower Bound	1.00	
			Upper Bound	1.00	
		5% Trimmed Mean		1.00	
		Median		1.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		1	
		Maximum		1	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T3	Mean		1.00	.000
		95% Confidence Interval for Mean	Lower Bound	1.00	
			Upper Bound	1.00	
		5% Trimmed Mean		1.00	
		Median		1.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		1	
		Maximum		1	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.

		Mean		.75	.250
		95% Confidence Interval for Mean	Lower Bound	-.05	
			Upper Bound	1.55	
		5% Trimmed Mean		.78	
		Median		1.00	
		Variance		.250	
	T4	Std. Deviation		.500	
		Minimum		0	
		Maximum		1	
		Range		1	
		Interquartile Range		1	
		Skewness		-2.000	1.014
		Kurtosis		4.000	2.619
		Mean		.75	.479
		95% Confidence Interval for Mean	Lower Bound	-.77	
			Upper Bound	2.27	
		5% Trimmed Mean		.72	
		Median		.50	
		Variance		.917	
	T5	Std. Deviation		.957	
		Minimum		0	
		Maximum		2	
		Range		2	
		Interquartile Range		2	
		Skewness		.855	1.014
		Kurtosis		-1.289	2.619
D60		Mean		1.25	.250
		95% Confidence Interval for Mean	Lower Bound	.45	
			Upper Bound	2.05	
		5% Trimmed Mean		1.22	
		Median		1.00	
		Variance		.250	
	C	Std. Deviation		.500	
		Minimum		1	
		Maximum		2	
		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
	T1	Mean		.75	.250

	95% Confidence Interval for Mean	Lower Bound	-.05	
		Upper Bound	1.55	
	5% Trimmed Mean		.78	
	Median		1.00	
	Variance		.250	
	Std. Deviation		.500	
	Minimum		0	
	Maximum		1	
	Range		1	
	Interquartile Range		1	
	Skewness		-2.000	1.014
	Kurtosis		4.000	2.619
T2	Mean		1.00	.000
	95% Confidence Interval for Mean	Lower Bound	1.00	
		Upper Bound	1.00	
	5% Trimmed Mean		1.00	
	Median		1.00	
	Variance		.000	
	Std. Deviation		.000	
	Minimum		1	
	Maximum		1	
	Range		0	
	Interquartile Range		0	
	Skewness		.	.
	Kurtosis		.	.
T3	Mean		1.00	.000
	95% Confidence Interval for Mean	Lower Bound	1.00	
		Upper Bound	1.00	
	5% Trimmed Mean		1.00	
	Median		1.00	
	Variance		.000	
	Std. Deviation		.000	
	Minimum		1	
	Maximum		1	
	Range		0	
	Interquartile Range		0	
	Skewness		.	.
	Kurtosis		.	.
T4	Mean		1.00	.000
	95% Confidence Interval for Mean	Lower Bound	1.00	

			Upper Bound	1.00	
		5% Trimmed Mean		1.00	
		Median		1.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		1	
		Maximum		1	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T5	Mean		.50	.289
		95% Confidence Interval for Mean	Lower Bound	-.42	
			Upper Bound	1.42	
		5% Trimmed Mean		.50	
		Median		.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		0	
		Maximum		1	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
D66	C	Mean		1.25	.250
		95% Confidence Interval for Mean	Lower Bound	.45	
			Upper Bound	2.05	
		5% Trimmed Mean		1.22	
		Median		1.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		1	
		Maximum		2	
		Range		1	
		Interquartile Range		1	
		Skewness		2.000	1.014
		Kurtosis		4.000	2.619
	T1	Mean		.50	.289
		95% Confidence Interval for Mean	Lower Bound	-.42	
			Upper Bound	1.42	

		5% Trimmed Mean		.50	
		Median		.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		0	
		Maximum		1	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619
	T2	Mean		.75	.250
		95% Confidence Interval for Mean	Lower Bound	-.05	
			Upper Bound	1.55	
		5% Trimmed Mean		.78	
		Median		1.00	
		Variance		.250	
		Std. Deviation		.500	
		Minimum		0	
		Maximum		1	
		Range		1	
		Interquartile Range		1	
		Skewness		-2.000	1.014
		Kurtosis		4.000	2.619
	T3	Mean		1.00	.000
		95% Confidence Interval for Mean	Lower Bound	1.00	
			Upper Bound	1.00	
		5% Trimmed Mean		1.00	
		Median		1.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		1	
		Maximum		1	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T4	Mean		1.00	.000
		95% Confidence Interval for Mean	Lower Bound	1.00	
			Upper Bound	1.00	
		5% Trimmed Mean		1.00	

		Median		1.00	
		Variance		.000	
		Std. Deviation		.000	
		Minimum		1	
		Maximum		1	
		Range		0	
		Interquartile Range		0	
		Skewness		.	.
		Kurtosis		.	.
	T5	Mean		.50	.289
		95% Confidence Interval for Mean	Lower Bound	-.42	
			Upper Bound	1.42	
		5% Trimmed Mean		.50	
		Median		.50	
		Variance		.333	
		Std. Deviation		.577	
		Minimum		0	
		Maximum		1	
		Range		1	
		Interquartile Range		1	
		Skewness		.000	1.014
		Kurtosis		-6.000	2.619

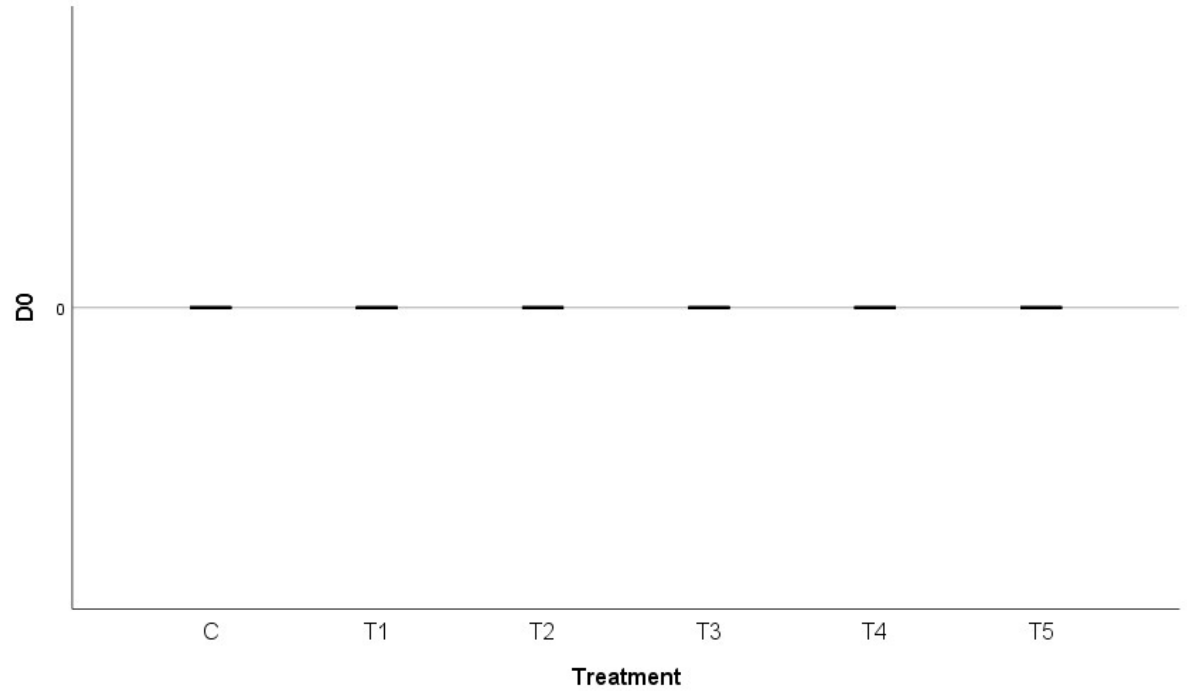
Tests of Normality

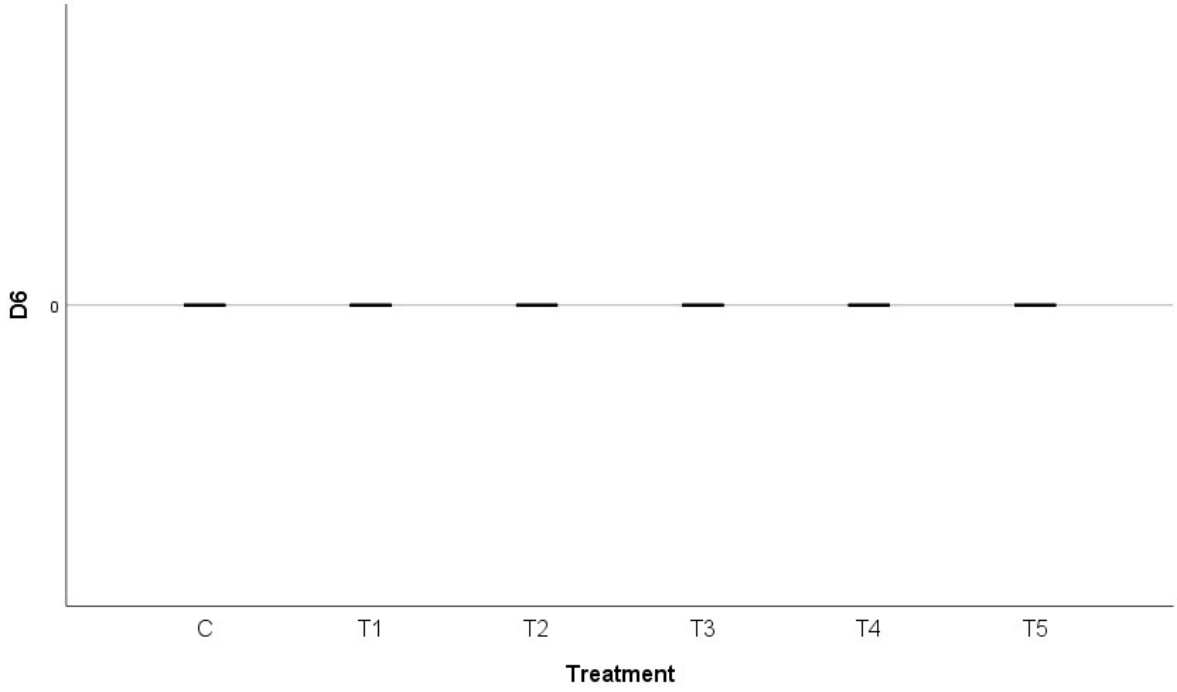
	Treatment	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
D0	C	.	4	.	.	4	.
	T1	.	4	.	.	4	.
	T2	.	4	.	.	4	.
	T3	.	4	.	.	4	.
	T4	.	4	.	.	4	.
	T5	.	4	.	.	4	.
D6	C	.	4	.	.	4	.
	T1	.	4	.	.	4	.
	T2	.	4	.	.	4	.
	T3	.	4	.	.	4	.
	T4	.	4	.	.	4	.
	T5	.	4	.	.	4	.
D12	C	.	4	.	.	4	.

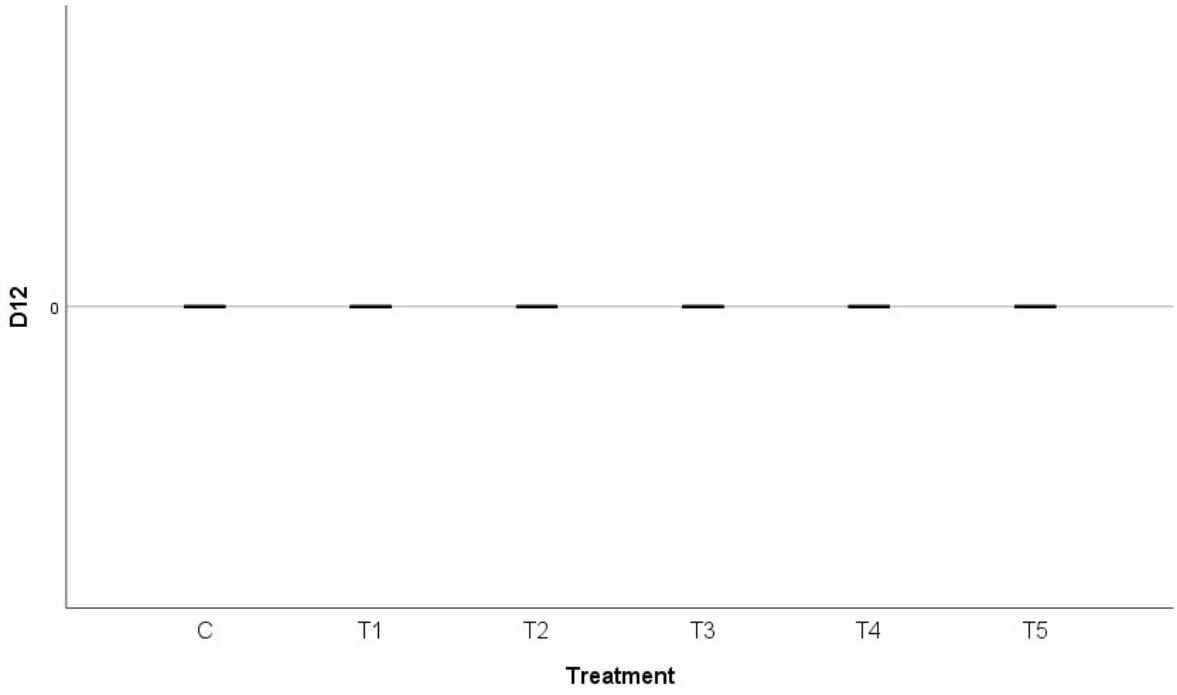
	T1	.	4	.	.	4	.
	T2	.	4	.	.	4	.
	T3	.	4	.	.	4	.
	T4	.	4	.	.	4	.
	T5	.	4	.	.	4	.
D18	C	.441	4	.	.630	4	.001
	T1	.	4	.	.	4	.
	T2	.	4	.	.	4	.
	T3	.	4	.	.	4	.
	T4	.	4	.	.	4	.
	T5	.	4	.	.	4	.
D24	C	.307	4	.	.729	4	.024
	T1	.441	4	.	.630	4	.001
	T2	.441	4	.	.630	4	.001
	T3	.441	4	.	.630	4	.001
	T4	.307	4	.	.729	4	.024
	T5	.	4	.	.	4	.
D30	C	.250	4	.	.945	4	.683
	T1	.441	4	.	.630	4	.001
	T2	.	4	.	.	4	.
	T3	.307	4	.	.729	4	.024
	T4	.441	4	.	.630	4	.001
	T5	.441	4	.	.630	4	.001
D36	C	.250	4	.	.945	4	.683
	T1	.441	4	.	.630	4	.001
	T2	.307	4	.	.729	4	.024
	T3	.	4	.	.	4	.
	T4	.283	4	.	.863	4	.272
	T5	.283	4	.	.863	4	.272
D42	C	.250	4	.	.945	4	.683
	T1	.307	4	.	.729	4	.024
	T2	.307	4	.	.729	4	.024
	T3	.	4	.	.	4	.
	T4	.441	4	.	.630	4	.001
	T5	.307	4	.	.729	4	.024
D48	C	.441	4	.	.630	4	.001
	T1	.	4	.	.	4	.
	T2	.441	4	.	.630	4	.001
	T3	.	4	.	.	4	.
	T4	.307	4	.	.729	4	.024

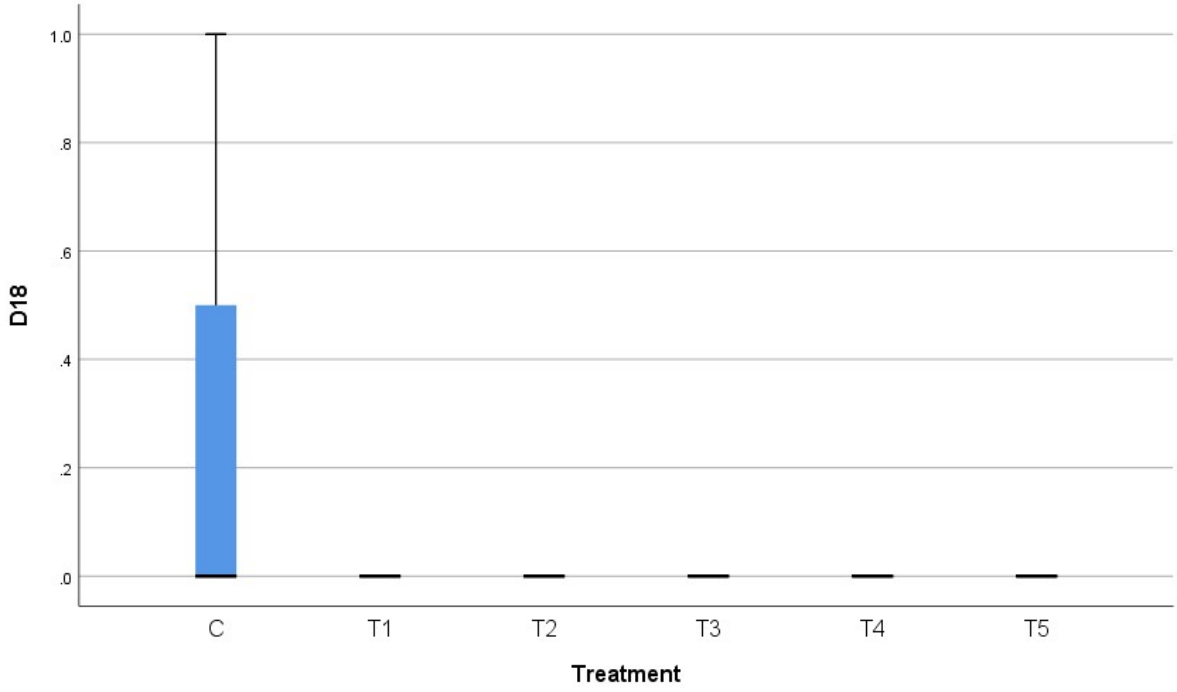
	T5	.283	4	.	.863	4	.272
D54	C	.441	4	.	.630	4	.001
	T1	.	4	.	.	4	.
	T2	.	4	.	.	4	.
	T3	.	4	.	.	4	.
	T4	.441	4	.	.630	4	.001
	T5	.283	4	.	.863	4	.272
D60	C	.441	4	.	.630	4	.001
	T1	.441	4	.	.630	4	.001
	T2	.	4	.	.	4	.
	T3	.	4	.	.	4	.
	T4	.	4	.	.	4	.
	T5	.307	4	.	.729	4	.024
D66	C	.441	4	.	.630	4	.001
	T1	.307	4	.	.729	4	.024
	T2	.441	4	.	.630	4	.001
	T3	.	4	.	.	4	.
	T4	.	4	.	.	4	.
	T5	.307	4	.	.729	4	.024

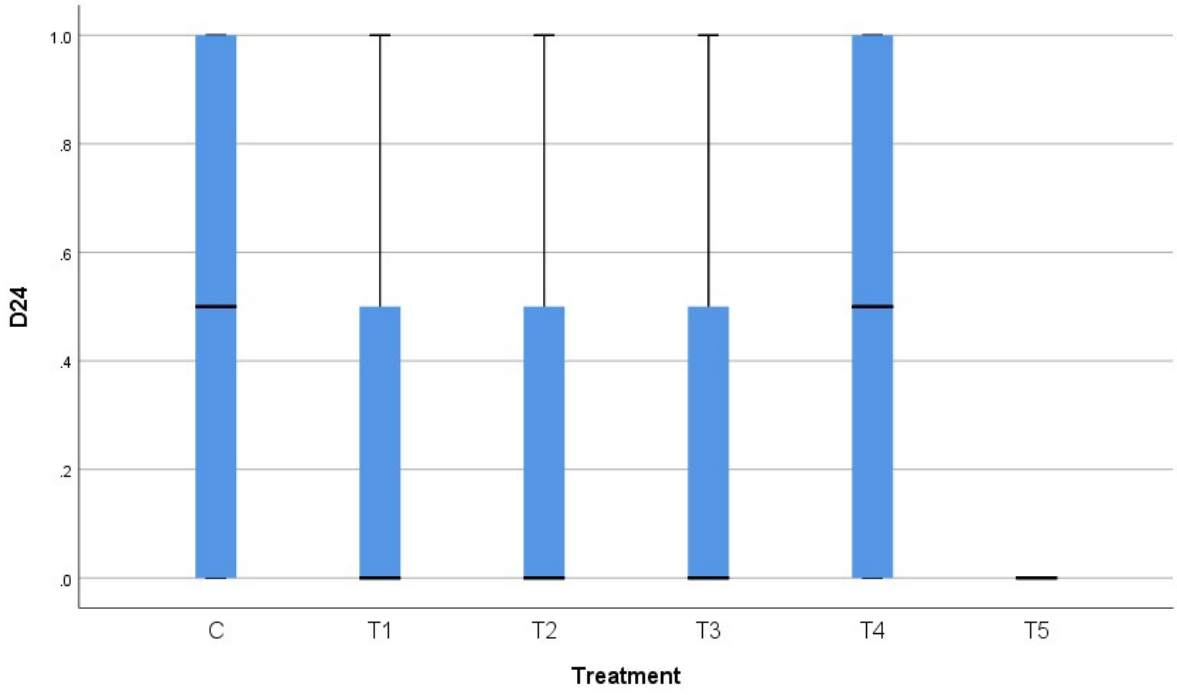
a. Lilliefors Significance Correction

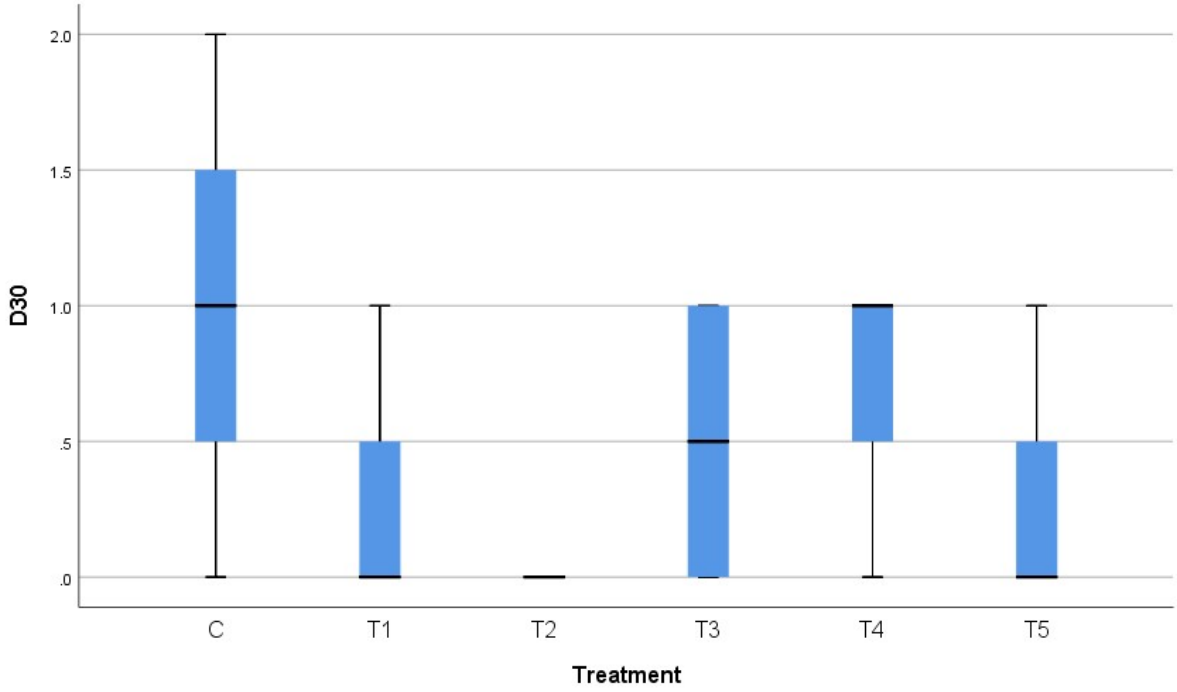


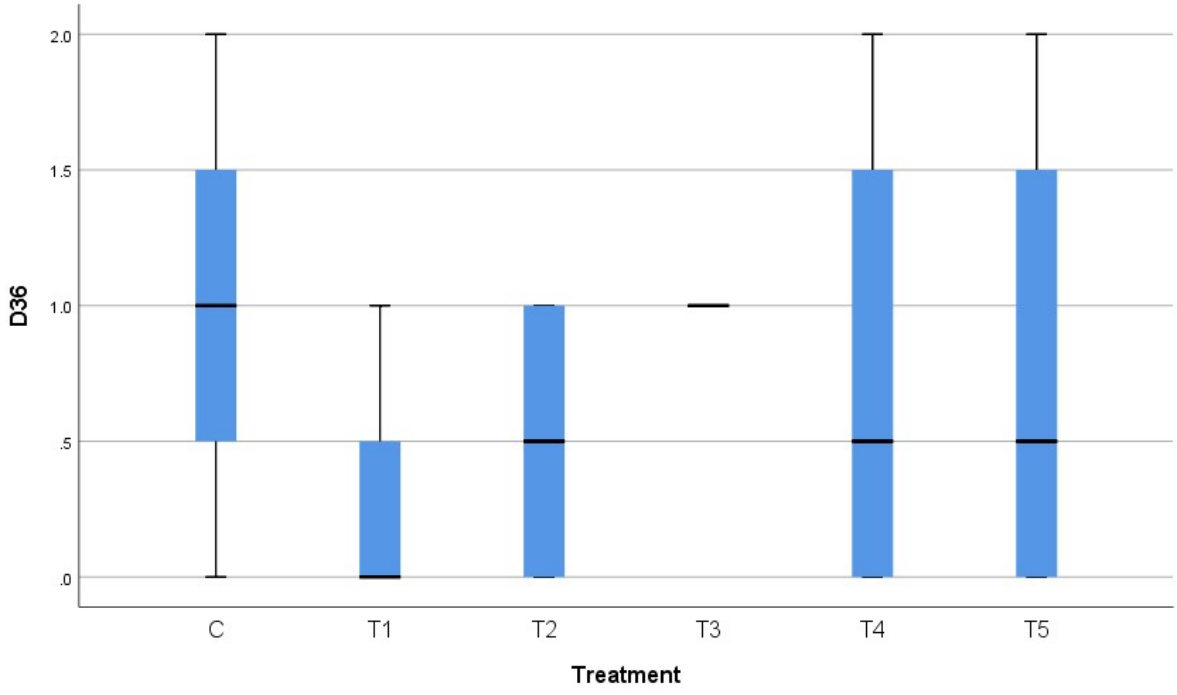

D6
0
C
T1
T2
T3
T4
T5
Treatment

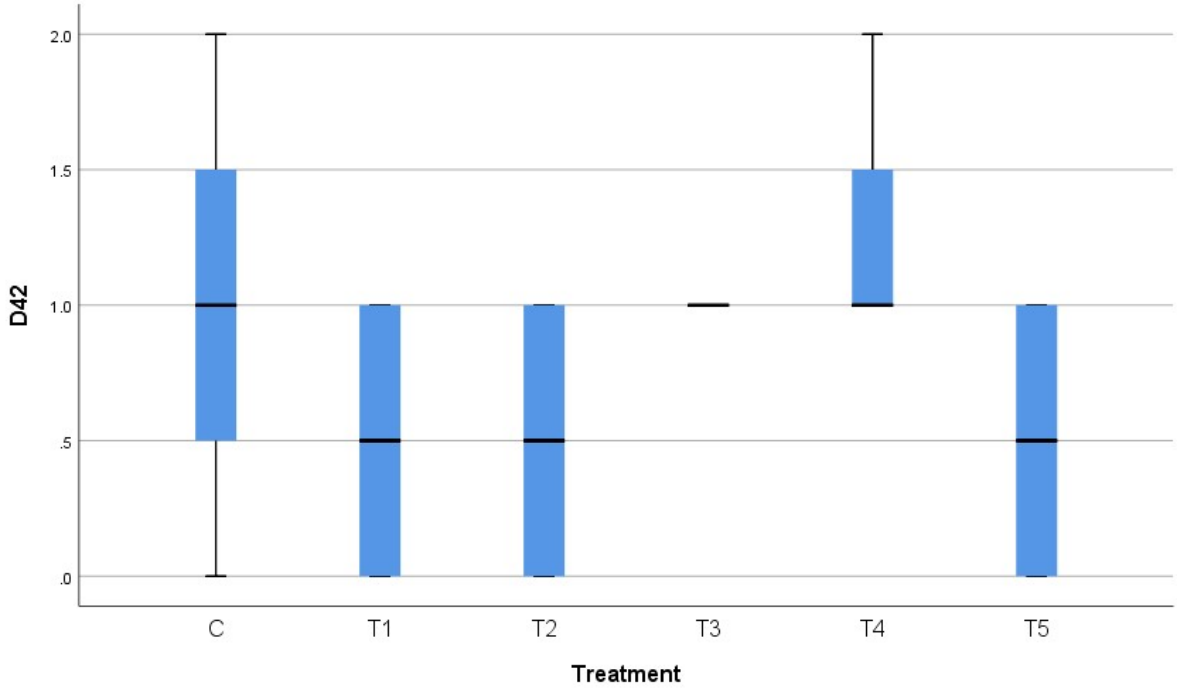

D12
0
C
T1
T2
T3
T4
T5
Treatment

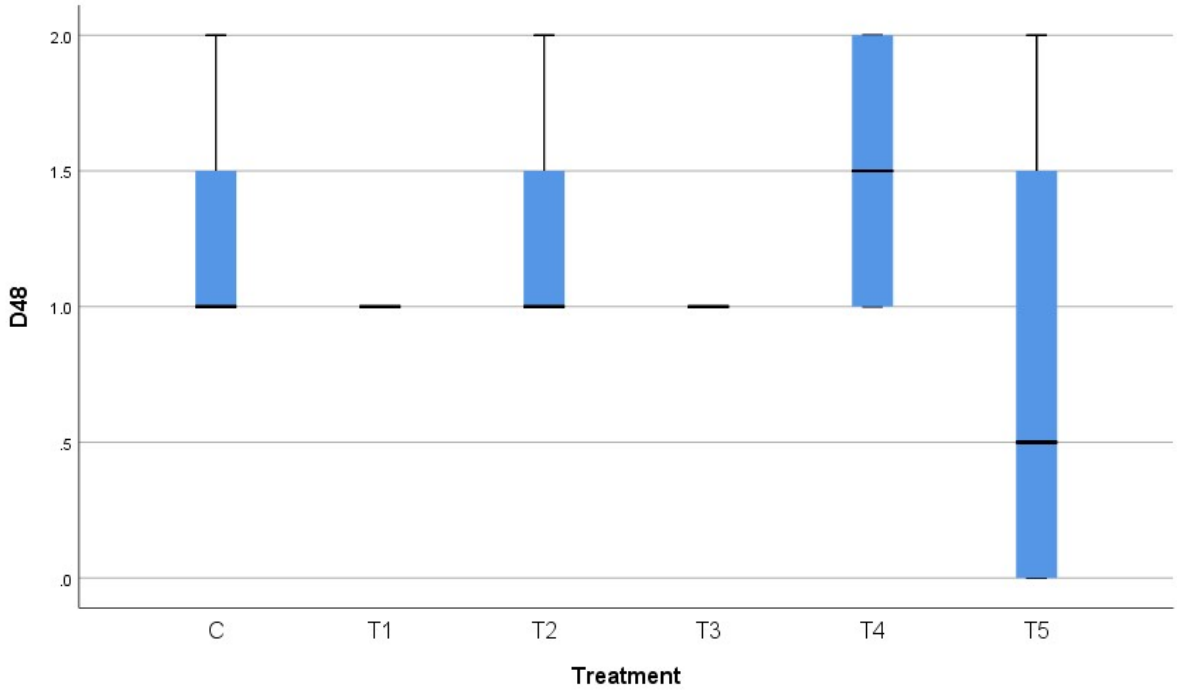

D18
1.0
.8
.6
.4
.2
.0
C
T1
T2
T3
T4
T5
Treatment

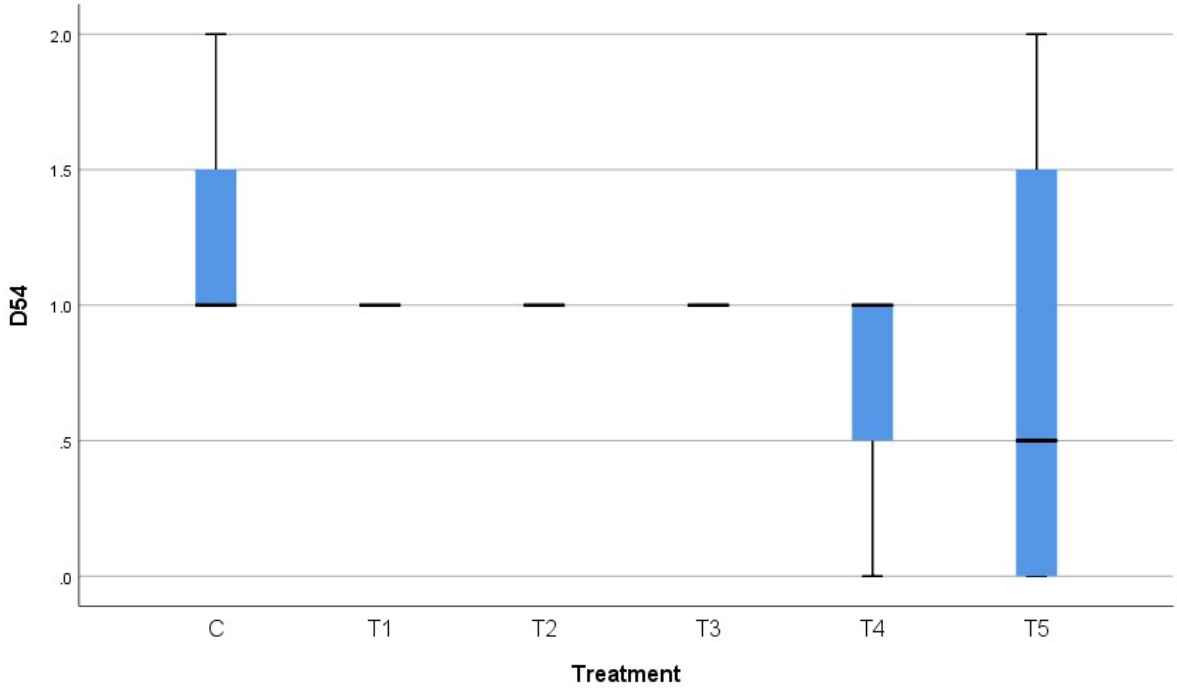

D24
1.0
.8
.6
.4
.2
.0
C
T1
T2
T3
T4
T5
Treatment

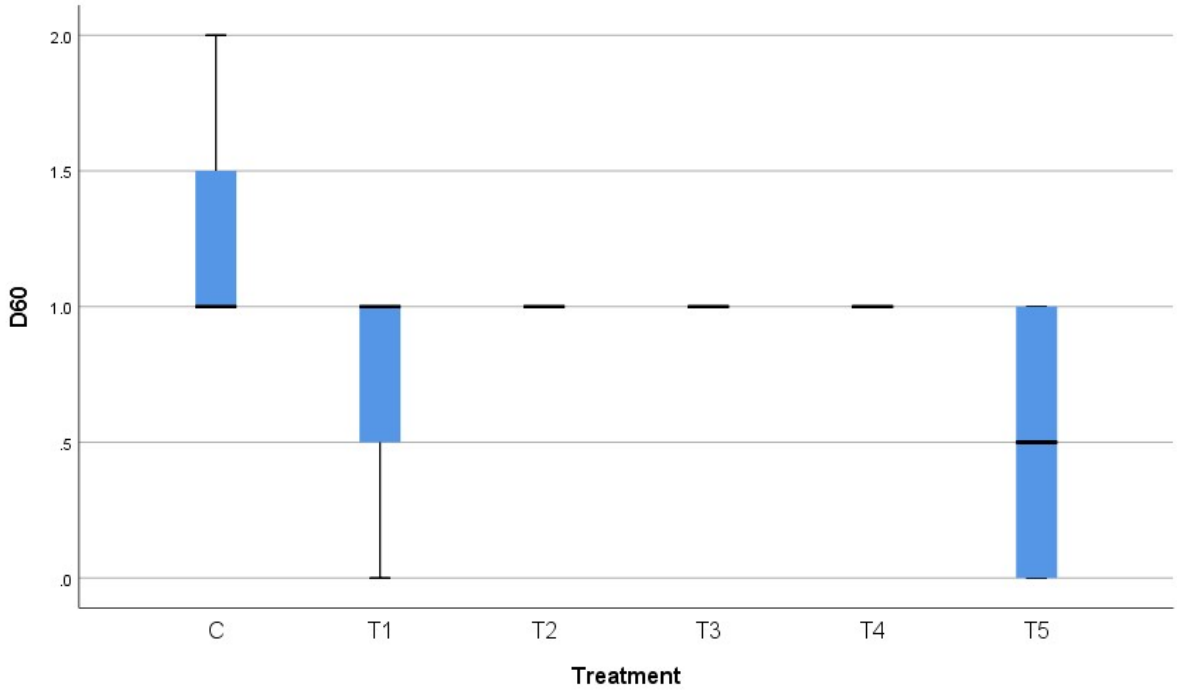

D30
2.0
1.5
1.0
.5
.0
C
T1
T2
T3
T4
T5
Treatment

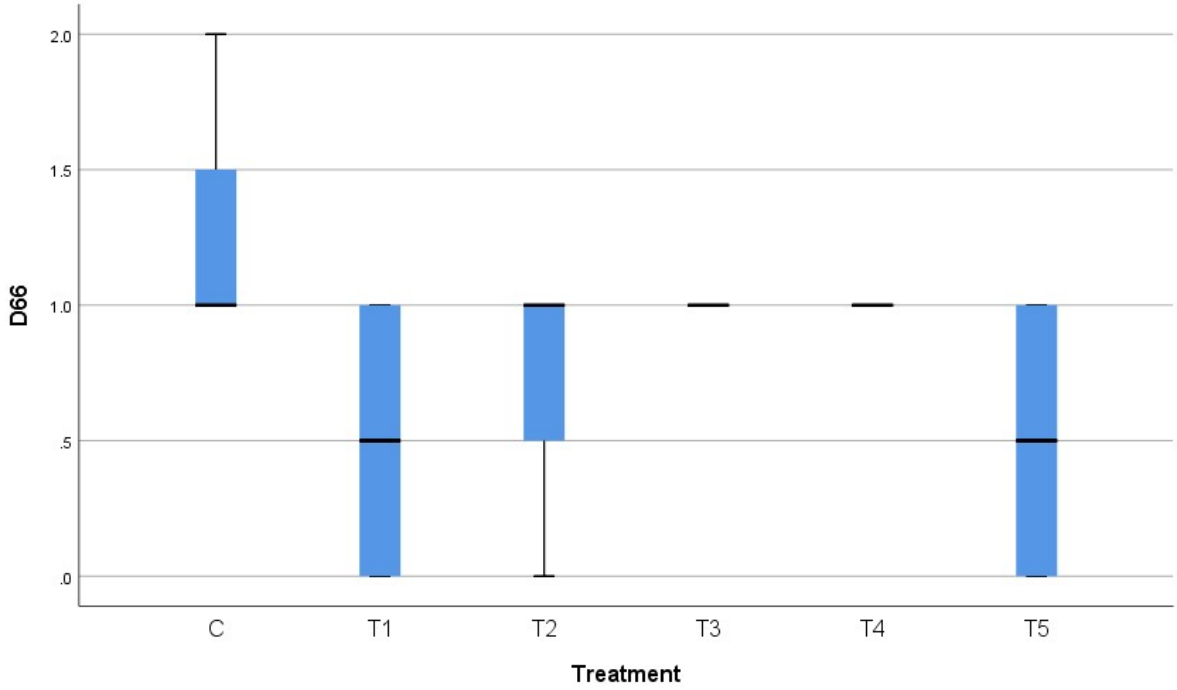

D36
2.0
1.5
1.0
.5
.0
C
T1
T2
T3
T4
T5
Treatment


D42
2.0
1.5
1.0
.5
.0
C
T1
T2
T3
T4
T5
Treatment


D48
2.0
1.5
1.0
.5
.0
C
T1
T2
T3
T4
T5
Treatment


D54
2.0
1.5
1.0
.5
.0
C
T1
T2
T3
T4
T5
Treatment


D60
2.0
1.5
1.0
.5
.0
C
T1
T2
T3
T4
T5
Treatment


D66
2.0
1.5
1.0
.5
.0
C
T1
T2
T3
T4
T5
Treatment

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of D0 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	1.000	Retain the null hypothesis.
2	The distribution of D6 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	1.000	Retain the null hypothesis.
3	The distribution of D12 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	1.000	Retain the null hypothesis.
4	The distribution of D18 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.416	Retain the null hypothesis.
5	The distribution of D24 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.656	Retain the null hypothesis.
6	The distribution of D30 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.178	Retain the null hypothesis.
7	The distribution of D36 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.552	Retain the null hypothesis.
8	The distribution of D42 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.273	Retain the null hypothesis.
9	The distribution of D48 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.478	Retain the null hypothesis.
10	The distribution of D54 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.642	Retain the null hypothesis.

Asymptotic significances are displayed. The significance level is .05.

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
11	The distribution of D60 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.154	Retain the null hypothesis.
12	The distribution of D66 is the same across categories of Treatment.	Independent-Samples Kruskal-Wallis Test	.164	Retain the null hypothesis.

Asymptotic significances are displayed. The significance level is .05.