Central Region Surface Complexity

Age [Days]	Real Surface	Projected	Difference	Ratio	Scaled (-0.8)
120 1R	236.9	200.1	36.77	1.18	0.38
120 2R	198.6	171.2	27.40	1.16	0.36
120 3R	232.4	195.8	36.66	1.19	0.39
120 4R	212.1	181.2	30.99	1.17	0.37
1201L	209.6	174.9	34.72	1.20	0.40
120 2L	151.1	130.7	20.44	1.16	0.36
120 3L	193.7	166.9	26.84	1.16	0.36
120 4L	230.9	195.0	35.90	1.18	0.38
Mean	208.19	176.98	31.22	1.18	0.38
SD	28.03	22.40	5.91	0.31	0.49

Age [Days]	Real Surface	Projected	Difference	Ratio	Scaled (-0.8)
900 1R	366.9	314.2	52.70	1.17	0.37
900 2R	343.0	293.6	49.40	1.17	0.37
900 3R	365.5	314.2	51.30	1.16	0.36
9001L	352.3	293.6	58.70	1.20	0.40
900 2L	364.6	314.2	50.40	1.16	0.36
900 3L	361.9	314.2	47.70	1.15	0.35
Mean	359.03	307.33	51.70	1.17	0.37
SD	9.44	10.64	3.82	0.07	0.73

To calculate the Sdr Standard Deveiation 120 Days

	Convert error to percentage [%]		add errors	Ratio	Convert from	Final
Age	Real	Projected	Real + Projected	Real/Projected	percentage	Answer
120	13.47	12.66	26.12	1.18	0.31	1.18 ± 0.31
900	2.63	3.46	6.09	1.17	0.07	1.17 ± 0.07

Central Region Real vs Projected Surface Area 120 Day

Descriptive Statistics

Difference	
Mean	31.22
Standard Error	2.08974456
Median	32.85
Mode	#N/A
Standard Dev	5.91069021
Sample Variance	34.9362587
Kurtosis	-0.264352
Skewness	-0.8392753
Range	16.33
Maximum	36.77
Minimum	20.44
Sum	249.72
Count	8
Geometric Mean	30.6694603
Harmonic Mean	30.0672378
AAD	4.79835
MAD	3.86335
IQR	8.83355

Box Plot

Difference	
Min	20.4446
Q1-Min	6.812925
Med-Q1	5.595575
Q3-Med	3.237975
Max-Q3	0.681125
Mean	31.22

Difference	
Min	20.4446
Q1	27.257525
Median	32.85
Q3	36.091075
Max	36.7722
Mean	31.22
Grand Min	0
Outliers	

Shapiro-Wilk Test

Difference	
W-stat	0.88185196
p-value	0.19614678
alpha	0.05
normal	yes

d'Agostino-Pearson

DA-stat	1.27711436
p-value	0.52805376
alpha	0.05
normal	yes

Box Plot (Difference)

T Test: Two Paired Samples

SUMMARY		Alpha	0.05	Hyp Mean Diff	0			
Groups	Count	Mean	Std Dev	Std Err	t	df	Cohen d	Effect r
Real Surface	8	208.19	28.0339762					
Projected	8	176.98	22.4017834					
Difference	8	31.22	5.91069021	2.089744564	14.9373759	7	5.28115988	0.98467344

T TEST	p-value	t-crit	lower	upper	sig
One Tail	7.22894E-07	1.89457861			yes
Two Tail	1.44579E-06	2.36462425	26.2738393	36.15676067	yes

Effect size Choen's d score		Effect size Choen's r score	
0.2	Small	0.1	Small
0.5	Medium	0.3	Medium
0.8	Large	0.5	Large

The 120-day-old average central region's real sufrace area (208.19 ± 28.03 mm²) was larger than the projected surface area (176.98± 22.40 mm²). This difference (31.22 mm²), 95% CI [26.27, 36.16] was statistically significant $t(7) = 14.94$, $P < .001$, with a large effect size ($d = 5.28$).

(panel 1)

Central Region Real vs Projected Surface Area 900 Day

Descriptive Statistics

Difference	
Mean	51.70
Standard Error	1.56140962
Median	50.85
Mode	#N/A
Standard Dev	3.82465685
Sample Variance	14.628
Kurtosis	2.54624392
Skewness	1.42405286
Range	11
Maximum	58.70
Minimum	47.70
Sum	310.20
Count	6
Geometric Mean	51.5870061
Harmonic Mean	51.4788015
AAD	2.66666667
MAD	1.65
IQR	2.7

Box Plot

Difference	
Min	47.7
Q1-Min	1.95
Med-Q1	1.2
Q3-Med	1.5
Max-Q3	0.35
Mean	51.70

Difference	
Min	47.7
Q1	49.65
Median	50.85
Q3	52.35
Max	52.7
Mean	51.70
Grand Min	0
Outliers	58.70

Shapiro-Wilk Test

Difference	
W-stat	0.89228257
p-value	0.33032072
alpha	0.05
normal	yes

d'Agostino-Pearson

DA-stat	4.97860536
p-value	0.0829678
alpha	0.05
normal	yes

Box Plot (Difference)

T Test: Two Paired Samples

SUMMARY		Alpha	0.05	Hyp Mean Diff	0			
Groups	Count	Mean	Std Dev	Std Err	t	df	Cohen d	Effect r
Real Surface	6	359.03	9.43730187					
Projected	6	307.33	10.6377943					
Difference	6	51.70	3.82465685	1.56140962	33.1111064	5	13.5175526	0.99772747

T TEST	p-value	t-crit	lower	upper	sig
One Tail	2.36141E-07	2.01504837			yes
Two Tail	4.72281E-07	2.57058184	47.6862688	55.71373121	yes

Effect size Choen's d score		Effect size Choen's r score	
0.2	Small	0.1	Small
0.5	Medium	0.3	Medium
0.8	Large	0.5	Large

The 900-day-old average central region's real sufrace area (359.03 ± 9.44 mm²) was larger than the projected surface area (307.33± 10.64 mm²). This difference (51.70 mm²), 95% CI [47.69, 55.71] was statistically significant $t(5) = 33.11$, $P < .001$, with a large effect size ($d = 13.51$).

(panel 2)

Central Region Surface Area 120 to 900 Day

Test For Normality 120 Day

Descriptive Statistics				Shapiro-Wilk Test

	Real Surface			Real Surface			Real Surface
Mean	208.2	Min	151.1427	W-stat	0.88868057
Standard Error	9.91150734	Q1-Min	46.249075	p-value	0.22749453
Median	210.9	Med-Q1	13.502025	alpha	0.05
Mode	#N/A	Q3-Med	20.416325	normal	yes
Standard Dev	28.0339762	Max-Q3	5.580075		
Sample Varia	785.903822	Mean	208.2	d'Agostino-Pearson	
Kurtosis	1.72575383				
Skewness	-1.2092372	Min	151.1427	DA-stat	3.9431134
Range	85.7475	Q1	197.391775	p-value	0.13923993
Maximum	236.9	Median	210.9	alpha	0.05
Minimum	151.1	Q3	231.310125	normal	yes
Sum	1665.5	Max	236.8902		
Count	8	Mean	208.2		
Geometric M	206.36304				
Harmonic M	204.33977	Grand Min	0		
AAD	20.2707344				
MAD	18.59675	Outliers			
IQR	33.91835				

Box Plot (Real Surface, 0–250)

Test For Normality 900 Day

Descriptive Statistics | | | | Shapiro-Wilk Test

	Real Surface			Real Surface			Real Surface
Mean	359.0	Min	343	W-stat	0.83739485
Standard Error	3.85276236	Q1-Min	11.7	p-value	0.12402623
Median	363.3	Med-Q1	8.55	alpha	0.05
Mode	#N/A	Q3-Med	2.025	normal	yes
Standard Dev	9.43730187	Max-Q3	1.625		
Sample Varia	89.0626667	Mean	359.0	d'Agostino-Pearson	
Kurtosis	0.34617159				
Skewness	-1.2398259	Min	343	DA-stat	2.19158114
Range	23.9	Q1	354.7	p-value	0.33427523
Maximum	366.9	Median	363.3	alpha	0.05
Minimum	343.0	Q3	365.275	normal	yes
Sum	2154.2	Max	366.9		
Count	6	Mean	359.0		
Geometric M	358.928423				
Harmonic M	358.821968	Grand Min	0		
AAD	7.58888889				
MAD	2.95	Outliers			
IQR	10.575				

Box Plot (Real Surface, 330–370)

Central Region Surface Area 120 to 900 Day

T Test: Two Independent Samples

SUMMARY			Hyp Mean Di	0		Effect size		Effect size	
Groups	Count	Mean	Variance	Cohen d		Choen's d score		Choen's r score	
Real Surface	6	359.03	89.0626667			0.2 Small		0.1 Small	
Real Surface	8	208.19	785.903822			0.5 Medium		0.3 Medium	
Pooled		150.84	495.55334	6.776013443		0.8 Large		0.5 Large	

T TEST: Equal Variances — Alpha 0.05

	std err	t-stat	df	p-value	t-crit	lower	upper	sig	effect r
One Tail	12.02232885	12.5467389	12	1.46955E-08	1.78228756			yes	0.96393484
Two Tail	12.02232885	12.5467389	12	2.93911E-08	2.17881283	124.646616	177.035425	yes	0.96393484

T TEST: Unequal Variances — Alpha 0.05

	std err	t-stat	df	p-value	t-crit	lower	upper	sig	effect r
One Tail	10.63399057	14.1847992	8.98793334	9.28277E-08	1.83339316			yes	0.97838659
Two Tail	10.63399057	14.1847992	8.98793334	1.85655E-07	2.2626202	126.780339	174.901703	yes	0.97838659

25mm

The central region's real surface area increased from 120-days-old (208.19 ± 28.03 mm^2) to 900-days-old (359.03 ± 9.44 mm^2). This difference (150.84 mm^2), 95% CI [126.78, 174.90] was statistically significant, $t(8.99) = 14.18$, $P < .001$, with a large effect size ($d = 6.78$).

Central Region Developed Interfacial Area Ratio (S_{dr}) 120 to 900 Days

Test For Normality 120 Days

Descriptive Statistics | Box Plot | | | Shapiro-Wilk Test

	Scaled (-0.8)			Scaled (-0.8)			Scaled (-0.8)
Mean	0.38	Min	0.35642615	W-stat	0.91689507
Standard Error	0.00542269	Q1-Min	0.00419237	p-value	0.40517959
Median	0.38	Med-Q1	0.01678134	alpha	0.05
Mode	#N/A	Q3-Med	0.00747266	normal	yes
Standard Dev	0.01533768	Max-Q3	0.01361155		
Sample Varia	0.00023524	Mean	0.38	d'Agostino-Pearson	
Kurtosis	-1.5124218				
Skewness	0.12483417	Min	0.35642615	DA-stat	1.07060127
Range	0.04205792	Q1	0.36061852	p-value	0.58549325
Maximum	0.40	Median	0.38	alpha	0.05
Minimum	0.36	Q3	0.38487251	normal	yes
Sum	3.00	Max	0.39848407		
Count	8	Mean	0.38		
Geometric M	0.37496172				
Harmonic M	0.37468858	Grand Min	0		
AAD	0.01315865				
MAD	0.01322253	Outliers			
IQR	0.024254				

Box Plot (Scaled (-0.8), 0.33–0.41)

Descriptive Statistics | Box Plot | | | Shapiro-Wilk Test

	Scaled (-0.8)			Scaled (-0.8)			Scaled (-0.8)
Mean	0.37	Min	0.35181413	W-stat	0.82700009
Standard Error	0.00673259	Q1-Min	0.00930936	p-value	0.10136
Median	0.37	Med-Q1	0.00437619	alpha	0.05
Mode	#N/A	Q3-Med	0.00262431	normal	yes
Standard Dev	0.01649142	Max-Q3	0.00013214		
Sample Varia	0.00027197	Mean	0.37	d'Agostino-Pearson	
Kurtosis	3.7025931				
Skewness	1.70273129	Min	0.35181413	DA-stat	8.58304597
Range	0.04811775	Q1	0.36112349	p-value	0.01368407
Maximum	0.40	Median	0.37	alpha	0.05
Minimum	0.35	Q3	0.36812399	normal	no
Sum	2.21	Max	0.36825613		
Count	6	Mean	0.37		
Geometric M	0.36827039				
Harmonic M	0.36798214	Grand Min	0		
AAD	0.01045458				
MAD	0.00392437	Outliers	0.40		
IQR	0.0070005				

Box Plot (Scaled (-0.8), 0.32–0.41)

Central Region Developed Interfacial Area Ratio (S_{dr}) 120 to 900 Days

Mann-Whitney Test for Two Independent Samples — Calculate the 95% CI

	Scaled (-0.8)	Scaled (-0.8)	Difference
count	8	6	
median	0.38	0.37	0.01
rank sum	65	40	
U	19	29	

	one tail	two tail
alpha	0.05	
U	19	
mean	24	
std dev	7.745966692	ties
z-score	0.645497224	
effect r	0.17251639	
U-crit	11.25901859	8.81818426
p-value	0.259302508	0.51860502
sig (norm)	no	no

U-crit	10	7
sig (table)	no	no

p-value	0.286380286	0.57276057
sig (exact)	no	no

Hodges-Lehmann estimation for the difference between population medians

(m-n) table	0.37	0.37	0.36	0.40	0.36	0.35
0.38	-0.02	-0.02	-0.02	0.02	-0.02	-0.03
0.36	0.01	0.01	0.01	0.04	0.01	-0.01
0.39	-0.02	-0.02	-0.02	0.01	-0.03	-0.04
0.37	0.00	0.00	0.00	0.03	-0.01	-0.02
0.36	0.01	0.01	0.01	0.04	0.00	-0.01
0.36	0.01	0.01	0.01	0.04	0.00	0.00
0.38	-0.02	-0.02	-0.02	0.02	-0.02	-0.03

Calculate the 95% CI

alpha	0.05	
U-crit	8.00	MWINV(alpha, n2, n1)
alpha	0.04	MWDIST(U-crit, n1, n2)
lower	-0.03	SMALL(F9:P20, U-crit)
upper	0.01	LARGE(F9:P20, U-crit)
median	-0.01	MEDIAN(F9:F20)
U-crit+	9.00	U-crit+1
alpha	0.06	MWDIST(U-crit+, n1, n2)
lower	-0.03	SMALL(F9:P20, U-crit+)
upper	0.01	LARGE(F9:P20, U-Crit+)

95% CI = [-0.03, 0.01]

Effect size		Effect size	
Choen's d score		Choen's r score	
0.2 Small		0.1 Small	
0.5 Medium		0.3 Medium	
0.8 Large		0.5 Large	

Graph B: S_{dr} vs Age [Days], Peripheral Region (○) and Central Region (△)

No difference could be detected for the developed interfacial area ratio from 120-days-old ($Mdn = 0.38$) to 900-days-old ($Mdn = 0.37$). A Mann-Whitney test indicated the 0.01 difference was not statistically significant, 95% CI [-0.03, 0.01], U($N_{900} = 6$, $N_{120} = 8$) = 19, $z = 0.65$, $P = .573$, with a small effect size ($r = .17$).

Peripherall Region Surface Complexity

Age [Days]	Real Surface	Projected	Difference	Ratio	Scaled (-0.8)
120 1R	391.7	338.7	53.04	1.16	0.36
120 2R	334.0	296.2	37.79	1.13	0.33
120 3R	375.5	337.3	38.27	1.11	0.31
120 4R	448.4	380.6	67.78	1.18	0.38
1201L	394.5	352.3	42.17	1.12	0.32
120 2L	374.6	328.0	46.55	1.14	0.34
120 3L	445.2	396.9	48.27	1.12	0.32
120 4L	421.9	358.2	63.70	1.18	0.38
Mean	398.22	348.52	49.69	1.14	0.34
SD	38.79	31.30	11.18	0.31	0.49

Age [Days]	Real Surface	Projected	Difference	Ratio	Scaled (-0.8)
900 1R	1238.1	917.4	320.70	1.35	0.55
900 2R	995.1	705.7	289.40	1.41	0.61
900 3R	1095.2	798.4	296.80	1.37	0.57
9001L	1411.3	962.7	448.60	1.47	0.67
900 2L	929.2	669.4	259.80	1.39	0.59
900 3L	1082.4	809.8	272.60	1.34	0.54
Mean	1125.22	810.57	314.65	1.39	0.59
SD	174.74	114.57	68.87	0.07	0.73

To calculate the Sdr Standard Deveiation 120 Days

	Convert error to percentage [%]		add errors	Ratio	Convert from	Final
Age	Real	Projected	Real + Projected	Real/Projected	percentage	Answer
120	9.74	8.98	18.72	1.14	0.21	1.14 ± 0.21
900	15.53	14.13	29.66	1.39	0.41	1.39 ± 0.41

Peripheral Region Real vs Projected Surface Area 120 Day

5

Descriptive Statistics

Difference			Difference	
Mean	49.69	Min		37.7876
Standard Erro	3.95404877	Q1-Min		3.40575
Median	47.41	Med-Q1		6.2128
Mode	#N/A	Q3-Med		8.3003
Standard Dev	11.1837388	Max-Q3		12.07585
Sample Varia	125.076014	Mean		49.69
Kurtosis	-0.8210945			
Skewness	0.68908503	Min		37.7876
Range	29.9947	Q1		41.19335
Maximum	67.78	Median		47.41
Minimum	37.79	Q3		55.70645
Sum	397.56	Max		67.7823
Count	8	Mean		49.69
Geometric M	48.6484874			
Harmonic M	47.6706475	Grand Min		0
AAD	8.86			
MAD	7.38825	Outliers		
IQR	14.5131			

Shapiro-Wilk Test

	Difference
W-stat	0.90797489
p-value	0.3400235
alpha	0.05
normal	yes

d'Agostino-Pearson

DA-stat	1.14687605
p-value	0.56358449
alpha	0.05
normal	yes

Box Plot

Peripheral Region Real vs Projected Surface Area 120 Day

T Test: Two Paired Samples

SUMMARY				Alpha	0.05	Hyp Mean D	0		
Groups	Count	Mean	Std Dev	Std Err	t	df	Cohen d	Effect r	
Real Surface	8	398.2	38.7945372						
Projected	8	348.5	31.29982						
Difference	8	49.69	11.1837388	3.954048774	12.568105	7	4.44349612	0.97855238	

T TEST

	p-value	t-crit	lower	upper	sig
One Tail	2.32939E-06	1.89457861			yes
Two Tail	4.65879E-06	2.36462425	40.3450604	59.04473962	yes

Effect size		Effect size	
Choen's d score		Choen's r score	
0.2	Small	0.1	Small
0.5	Medium	0.3	Medium
0.8	Large	0.5	Large

The 120-day-old average peripheral region's real surface area (398.22 ± 38.79 mm^2) was larger than the projected surface area (348.52 ± 31.30 mm^2). This difference (49.69 mm^2), 95% CI [40.35, 59.04] was statistically significant, $t(7) = 12.57$, $P < .001$, with a large effect size ($d = 4.44$).

Peripheral Region Real vs Projected Surface Area 900 Day

6

Descriptive Statistics

Difference		Box Plot	Difference	
Mean	314.65	Min		259.8
Standard Erro	28.1141216	Q1-Min		17
Median	293.10	Med-Q1		16.3
Mode	#N/A	Q3-Med		5.975
Standard Dev	68.8652525	Max-Q3		5.975
Sample Varia	4742.423	Mean		314.65
Kurtosis	4.16488914			
Skewness	1.96805374	Min		259.8
Range	188.8	Q1		276.8
Maximum	448.60	Median		293.10
Minimum	259.80	Q3		314.725
Sum	1887.90	Max		320.7
Count	6	Mean		314.65
Geometric M	309.276989			
Harmonic M	304.730532	Grand Min		0
AAD	46.6666667			
MAD	24.05	Outliers		448.60
IQR	37.925			

Shapiro-Wilk Test

	Difference
W-stat	0.77485047
p-value	0.03449578
alpha	0.05
normal	no

d'Agostino-Pearson

DA-stat	11.1468092
p-value	0.00379753
alpha	0.05
normal	no

Box Plot

Peripheral Region Real vs Projected Surface Area 900 Day

Wilcoxon Signed-Rank Test for Paired Samples

	Real Surface	Projected	Difference
median	1088.80	804.10	284.70
count	6		
# unequal	6		
T+	0		
T-	21		
T	0		

	one tail	two tail
alpha	0.05	
mean	10.5	
std dev	4.769696007	ties
z-score	2.201398157	
effect r	0.635488909	
T-crit	2.654548223	1.15156761
p-value	0.013853925	0.02770785
sig (norm)	yes	yes

T-crit (table)	2	0
sig (table)	yes	no

p-value (exact)	0.015625	0.03125
sig (exact)	yes	yes

Hodges-Lehmann estimation for the difference between population medians

Walsh Averages (row+column)/2

	320.70	289.40	296.80	448.60	259.80	272.60
320.70	320.7	305.05	308.75	384.65	290.25	296.65
289.40		289.4	293.1	369	274.6	281
296.80			296.8	372.7	278.3	284.7
448.60				448.6	354.2	360.6
259.80					259.8	266.2
272.60						272.6

Calculate the 95% CI

alpha	0.05	
T-crit	0.00	SRINV(alpha, N)
alpha	0.03	SRDIST(T-crit, N)
lower	259.80	SMALL(H7:V21,T-crit)
upper	384.65	LARGE(H7:V21,T-crit)
median	289.40	MEDIAN(H7:V21)
T-crit+	1.00	T-crit + 1
alpha	0.06	SRDIST(T-crit+, N)
lower	259.80	SMALL(H7:V21,T-crit+)
upper	384.65	LARGE(H7:V21,T-crit+)

The 95%CI for the median is:
95%CI = [259.80, 384.40]

Effect size		Effect size	
Choen's d score		Choen's r score	
0.2	Small	0.1	Small
0.5	Medium	0.3	Medium
0.8	Large	0.5	Large

The 900-day-old average peripheral region's real surface area (Mdn = 1088.80 mm^2) was larger than the projected surface area (Mdn = 804.10 mm^2). A Wilcoxon signed-rank test indicated this difference (284.70 mm^2) was statistically significant, 95% CI [259.80, 384.65], $T = 0$, $z = 2.20$ $P = .028$, with a large effect size ($r = .63$).

Peripheral Region Surface Area 120 to 900 Days

Test For Normality 120 Day

Descriptive Statistics		Multiplier	2.2		Shapiro-Wilk Test	

	Real Surface			*Real Surface*			*Real Surface*
Mean	398.2	Min	334.0197	W-stat	0.9456302
Standard Erro	13.7159402	Q1-Min	41.268625	p-value	0.66717443
Median	393.1	Med-Q1	17.789225	alpha	0.05
Mode	#N/A	Q3-Med	34.61285	normal	yes
Standard Dev	38.7945372	Max-Q3	20.7121		
Sample Varia	1505.01612	Mean	398.2	d'Agostino-Pearson	
Kurtosis	-0.4973626				
Skewness	-0.1518174	Min	334.0197	DA-stat	0.08268817
Range	114.3828	Q1	375.288325	p-value	0.95949893
Maximum	448.4	Median	393.1	alpha	0.05
Minimum	334.0	Q3	427.6904	normal	yes
Sum	3185.7	Max	448.4025		
Count	8	Mean	398.2		
Geometric M	396.538141				
Harmonic M	394.839038	Grand Min	0		
AAD	30.1998188				
MAD	23.64045	Outliers	None		
IQR	52.402075				

Test For Normality 900 Days

Descriptive Statistics		Box Plot		Shapiro-Wilk Test	

	Real Surface			*Real Surface*			*Real Surface*
Mean	1125.2	Min	929.2	W-stat	0.94242342
Standard Erro	71.3380376	Q1-Min	87.725	p-value	0.67878061
Median	1088.8	Med-Q1	71.875	alpha	0.05
Mode	#N/A	Q3-Med	113.575	normal	yes
Standard Dev	174.741791	Max-Q3	208.925		
Sample Varia	30534.6937	Mean	1125.2	d'Agostino-Pearson	
Kurtosis	0.22759981				
Skewness	0.84408774	Min	929.2	DA-stat	1.0145723
Range	482.1	Q1	1016.925	p-value	0.60212745
Maximum	1411.3	Median	1088.8	alpha	0.05
Minimum	929.2	Q3	1202.375	normal	yes
Sum	6751.3	Max	1411.3		
Count	6	Mean	1125.2		
Geometric M	1114.39384				
Harmonic M	1104.09345	Grand Min	0		
AAD	132.988889				
MAD	121.5	Outliers			
IQR	185.45				

Peripheral Region Surface Area 120 to 900 Days

T Test: Two Independent Samples

SUMMARY			Hyp Mean Di	0		Effect size		Effect size	
Groups	Count	Mean	Variance	Cohen d		Choen's *d* score		Choen's *r* score	
Real Surface	6	1125.22	30534.6937			0.2 Small		0.1 Small	
Real Surface	8	398.22	1505.01612			0.5 Medium		0.3 Medium	
Pooled		727.00	13600.7151	6.233819902		0.8 Large		0.5 Large	

T TEST: Equal Variances				Alpha	0.05				
	std err	t-stat	df	p-value	t-crit	lower	upper	sig	effect r
One Tail	62.98313454	11.5427915	12	3.723E-08	1.78228756			yes	0.95779741
Two Tail	62.98313454	11.5427915	12	7.446E-08	2.17881283	589.77273	864.229653	yes	0.95779741

T TEST: Unequal Variances				Alpha	0.05				
	std err	t-stat	df	p-value	t-crit	lower	upper	sig	effect r
One Tail	72.64463246	10.0076381	5.37125524	5.633E-05	1.98468612			yes	0.97421725
Two Tail	72.64463246	10.0076381	5.37125524	0.00011266	2.51804923	544.078431	909.923953	yes	0.97421725

The peripheral region's real surface area increased from 120-days-old (398.22 ± 38.79 mm²) to 900-days-old (1125.22 ± 174.74 mm²). This difference (727.0 mm²), 95% CI [544.08, 909.92] was statistically significant $t(5.37) = 10.01$, $P < .001$, with a large effect size ($d = 6.23$).

Peripheral Region Developed Interfacial Area Ratio (S_{dr}) 120 to 900 Days

Test For Normality 120 Day

Descriptive Statistics		Box Plot		Shapiro-Wilk Test	

	Scaled (-0.8)			*Scaled (-0.8)*			*Scaled (-0.8)*
Mean	0.34	Min	0.31345912	W-stat	0.87641783
Standard Erro	0.00919813	Q1-Min	0.00766977	p-value	0.17398989
Median	0.33	Med-Q1	0.01359722	alpha	0.05
Mode	#N/A	Q3-Med	0.02720801	normal	yes
Standard Dev	0.02601623	Max-Q3	0.01614971		
Sample Varia	0.00067684	Mean	0.34	d'Agostino-Pearson	
Kurtosis	-1.5307578				
Skewness	0.52989613	Min	0.31345912	DA-stat	1.56489249
Range	0.0646247	Q1	0.32112889	p-value	0.45728601
Maximum	0.38	Median	0.33	alpha	0.05
Minimum	0.31	Q3	0.36193411	normal	yes
Sum	2.74	Max	0.37808382		
Count	8	Mean	0.34		
Geometric M	0.3412474				
Harmonic M	0.34041397	Grand Min	0		
AAD	0.02156828				
MAD	0.01814677	Outliers			
IQR	0.04080522				

Test For Normality 900 Day

Descriptive Statistics		Box Plot		Shapiro-Wilk Test	

	Scaled (-0.8)			*Scaled (-0.8)*			*Scaled (-0.8)*
Mean	0.59	Min	0.53662633	W-stat	0.94333223
Standard Erro	0.01909909	Q1-Min	0.02480908	p-value	0.68614676
Median	0.58	Med-Q1	0.02480908	alpha	0.05
Mode	#N/A	Q3-Med	0.02466802	normal	yes
Standard Dev	0.04678304	Max-Q3	0.06138695		
Sample Varia	0.00218865	Mean	0.59	d'Agostino-Pearson	
Kurtosis	0.70958771				
Skewness	0.93911169	Min	0.53662633	DA-stat	1.40086292
Range	0.12935477	Q1	0.55511704	p-value	0.49637109
Maximum	0.67	Median	0.58	alpha	0.05
Minimum	0.54	Q3	0.60459414	normal	yes
Sum	3.52	Max	0.66598109		
Count	6	Mean	0.59		
Geometric M	0.5855116				
Harmonic M	0.58404774	Grand Min	0		
AAD	0.0343724				
MAD	0.03025719	Outliers			
IQR	0.04947711				

Peripheral Region Developed Interfacial Area Ratio (S_{dr}) 120 to 900 Days

T Test: Two Independent Samples

SUMMARY			Hyp Mean Di	0		Effect size		Effect size	
Groups	Count	Mean	Variance	Cohen d		Choen's *d* score		Choen's *r* score	
Ratio	6	1.387	0.00218865			0.2 Small		0.1 Small	
Ratio	8	1.142	0.00067684			0.5 Medium		0.3 Medium	
Pooled		0.245	0.00130676	6.775331098		0.8 Large		0.5 Large	

T TEST: Equal Variances				Alpha	0.05				
	std err	t-stat	df	p-value	t-crit	lower	upper	sig	effect r
One Tail	0.019522797	12.5454754	12	1.47121E-08	1.78228756			yes	0.96392797
Two Tail	0.019522797	12.5454754	12	2.94243E-08	2.17881283	0.20238624	0.28745928	yes	0.96392797

T TEST: Unequal Variances				Alpha	0.05				
	std err	t-stat	df	p-value	t-crit	lower	upper	sig	effect r
One Tail	0.021198607	11.5537199	7.30756844	2.94316E-06	1.88265012			yes	0.97370334
Two Tail	0.021198607	11.5537199	7.30756844	5.88632E-06	2.3445976	0.19522056	0.29462497	yes	0.97370334

The peripheral region's developed interfacial Area Ratio (S_{dr}) increased from 120-days-old (1.14 ± 0.31) to 900-days-old (1.39 ± 0.07). This difference (0.25), 95% CI [0.20, 0.30] was statistically significant $t(7.31) = 11.55$, $P < .001$, with a large effect size ($d = 6.78$).