

Supplementary materials for

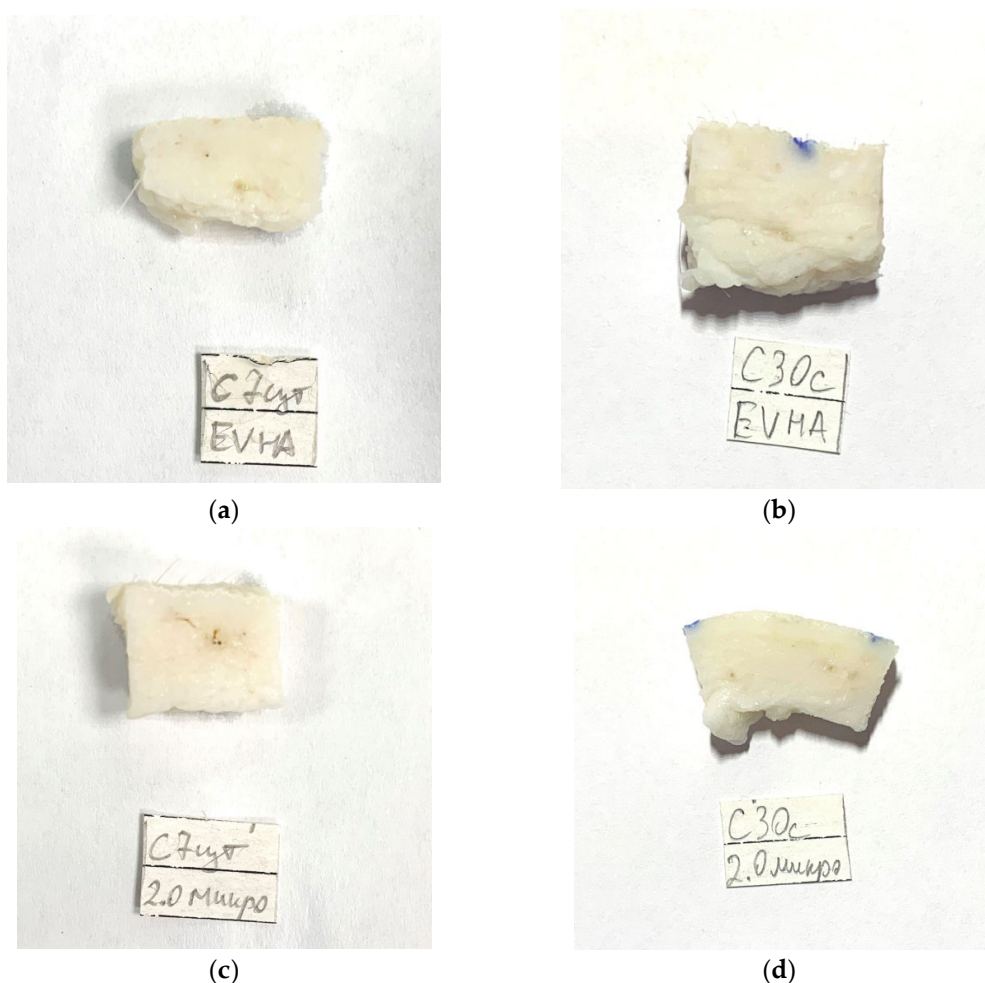
# Long-Term Efficacy of Poly(L-lactide-co- $\epsilon$ -caprolactone) Copolymer Lifting Threads with Encapsulated MICROscale Hyaluronic Acid Particles Using NAMICA Technology: Investigating Biorevitalizing Effects in Skin Remodeling (Part 1)

Pavel Burko <sup>1,\*</sup>, George Sulamanidze <sup>2</sup> and Dmitriy Nikishin <sup>3</sup>

This file includes:

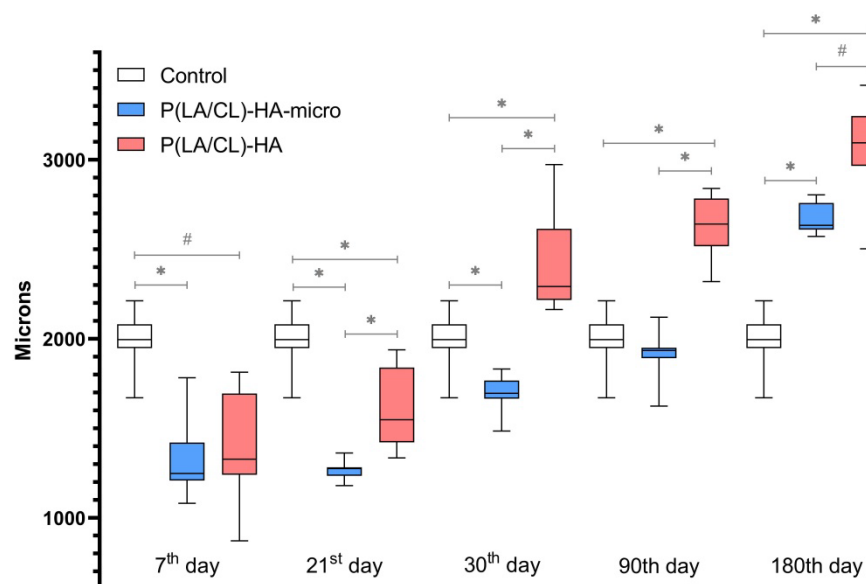
1. Supplementary Figures and Figure Legends S1 to S15.
2. Supplementary Tables S1–S3.

## 1. Supplementary Figures and Figure Legends

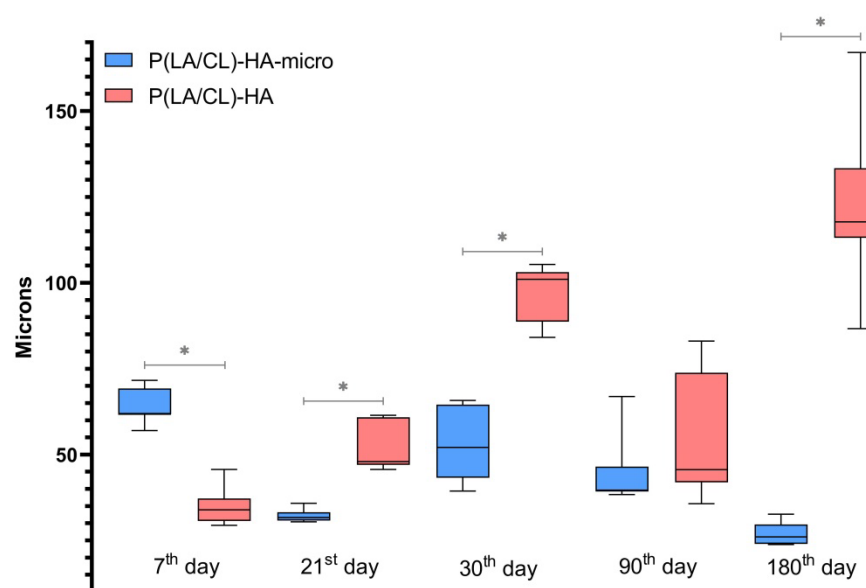


**Figure S1.** The collection comprises a series of macroscopic photographs illustrating specimens of skin and subcutaneous tissue, excised from a 15 cm segment of harvested soft tissue at two distinct

time points. These include: a specimen treated with P(LA/CL)-HA threads at day 7, labeled as (a); another specimen, similarly treated, at day 30, labeled as (b); a specimen treated with P(LA/CL)-HA-micro threads at day 7, labeled as (c); another specimen, similarly treated, at day 30, labeled as (d).

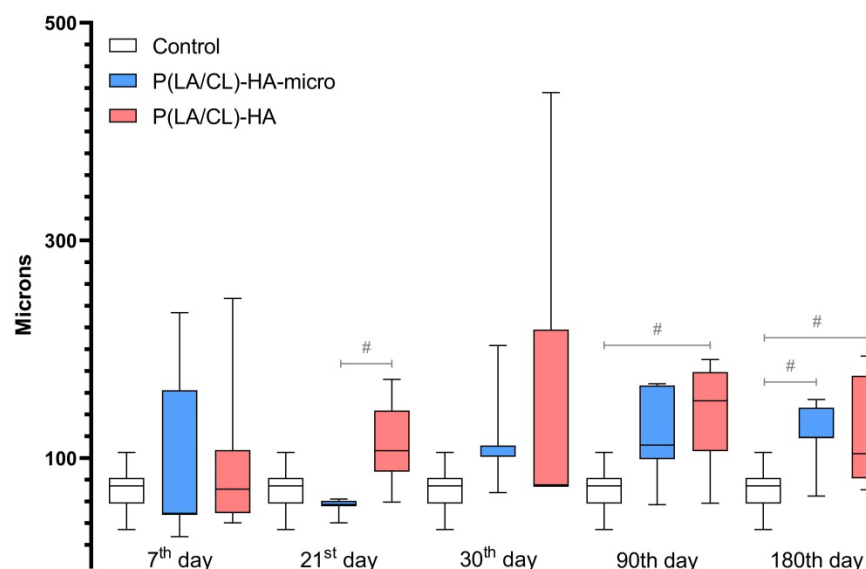


**Figure S2.** A series of box plots presents measurements of dermal thickness for three distinct groups—the control, P(LA/CL)-HA-micro, and P(LA/CL)-HA—at five different time points in the post-implantation period. Each box plot provides a five-number summary that includes the minimum, first quartile (Q1), median, third quartile (Q3), and maximum values, expressed in microns. These plots offer a detailed look at the variability and distribution patterns of dermal thickness across each group over time, effectively highlighting the central tendencies and the spread of the data. Results reaching a  $p$ -value less than 0.05 were deemed statistically significant, marked with an asterisk (\*) for  $0.01 \leq p < 0.05$ , and a hash sign (#) for a  $p$ -value between 0.05 and 0.1, suggesting a trend toward significance that could be confirmed with a larger sample size.

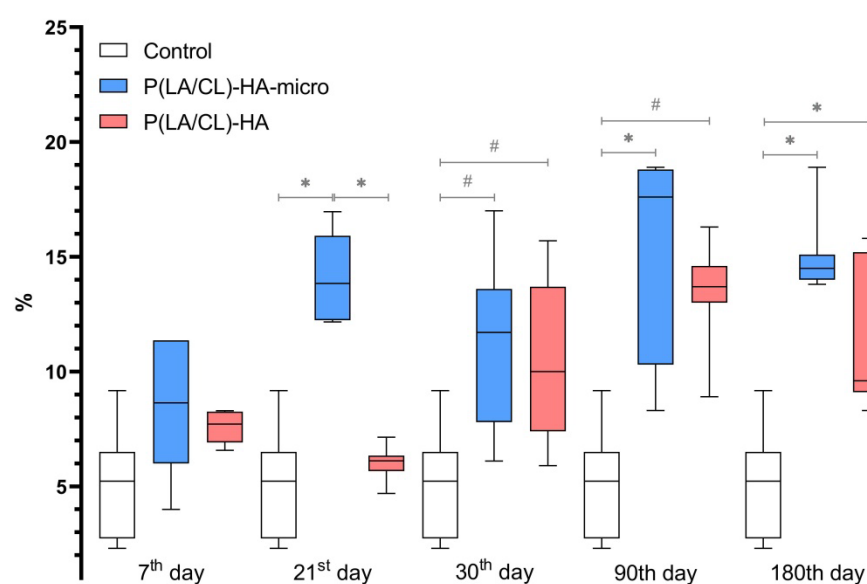


**Figure S3.** A collection of box plots graphically represents measurements of fibrous sheath thickness among two groups—P(LA/CL)-HA-micro and P(LA/CL)-HA—over five distinct time points in the post-implantation phase. Each box plot provides a comprehensive five-number summary, including

the minimum, first quartile (Q1), median, third quartile (Q3), and maximum, all quantified in microns. These plots thoroughly depict the variability and distribution of fibrous sheath thickness across each group through time, effectively summarizing central tendencies and the spread of data. Data points that achieved a  $p$ -value of less than 0.05 were considered statistically significant, with an asterisk (\*) indicating those in the range of  $0.01 \leq p < 0.05$ .

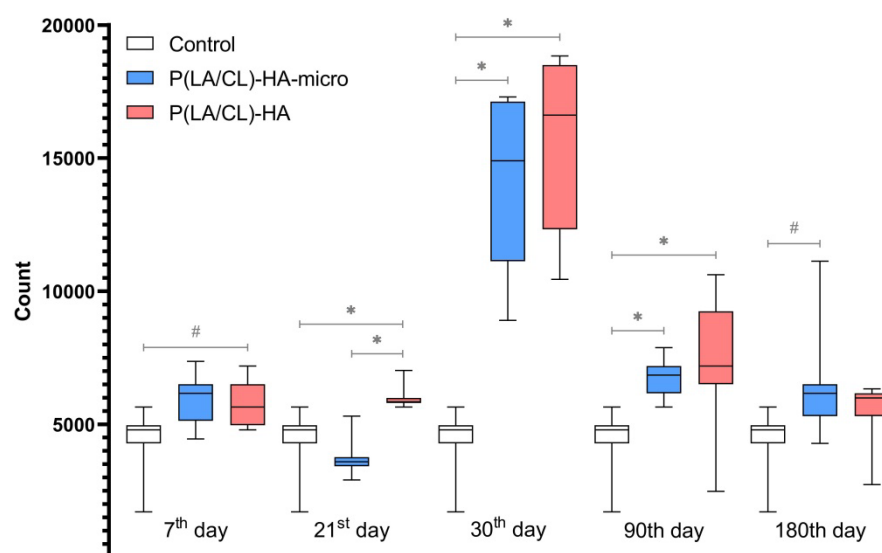


**Figure S4.** A collection of box plots graphically illustrates the diameter of blood vessels across three groups—the control, P(LA/CL)-HA-micro, and P(LA/CL)-HA—at five points during the post-implantation period. Each plot outlines a five-point summary: minimum, first quartile (Q1), median, third quartile (Q3), and maximum, measured in microns. These visual representations provide a detailed examination of the variability and distribution of blood vessel diameters within each group over time, succinctly capturing the central tendencies and spread of the data. A  $p$ -value between 0.05 and 0.1 (#) indicated a potential trend toward significance, suggesting that conclusive results could be obtained with a larger dataset.

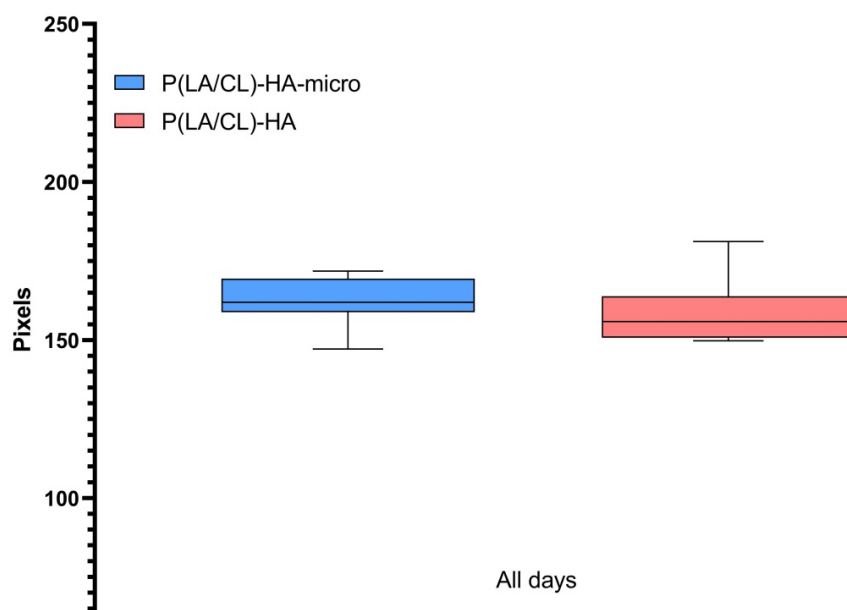


**Figure S5.** A series of box plots graphically displays data on the relative vascular bed area among three groups—the control, P(LA/CL)-HA-micro, and P(LA/CL)-HA—over five distinct time intervals following implantation. Each plot provides a detailed five-number summary: minimum, first

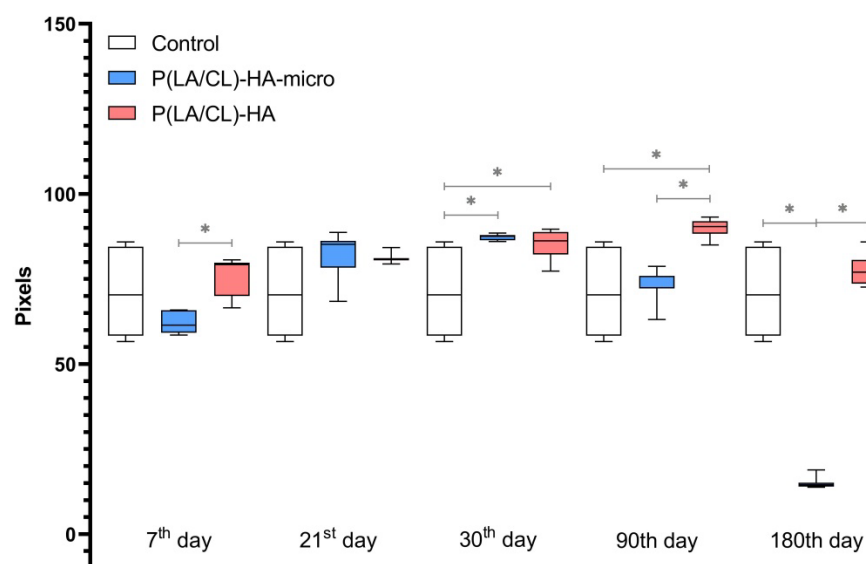
quartile (Q1), median, third quartile (Q3), and maximum, each measured in percentage. These visualizations offer a thorough analysis of the variability and distribution of the relative vascular bed area across each group throughout the study, concisely summarizing the central tendencies and variations within the data. Results reaching a  $p$ -value below 0.05 were deemed statistically significant, with an asterisk (\*) indicating values from 0.01 to less than 0.05. Additionally, a hash symbol (#) marks a  $p$ -value between 0.05 and 0.1, suggesting a potential trend towards significance, which could be confirmed with a larger sample size.



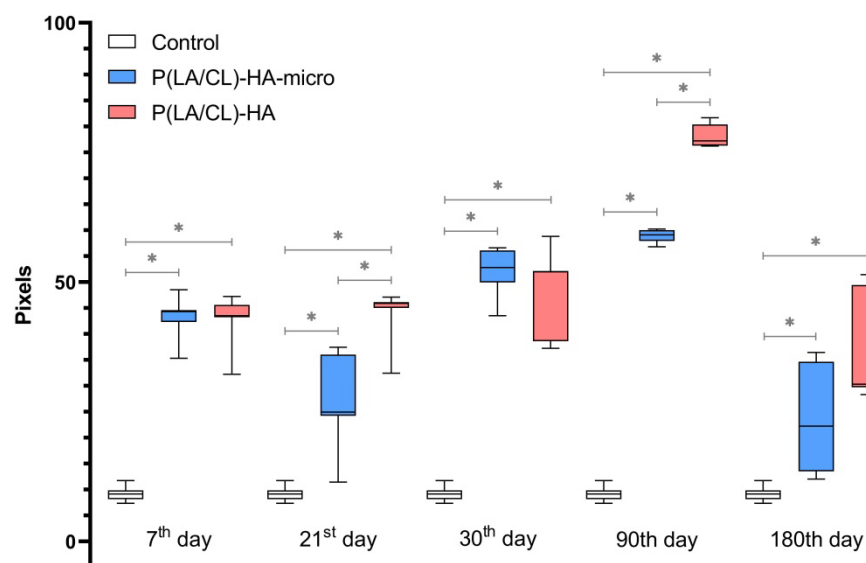
**Figure S6.** A sequence of box plots visually presents data on fibrocyte counts among three different groups—the control, P(LA/CL)-HA-micro, and P(LA/CL)-HA—at five distinct time intervals following implantation. These plots deliver a five-number summary, detailing the minimum, first quartile (Q1), median, third quartile (Q3), and maximum values, all quantified in counts. This graphical display provides a comprehensive examination of the variability and distribution of fibrocyte counts across each group throughout the period, concisely capturing the central tendencies and spread of the data. Results yielding a  $p$ -value below 0.05 were classified as statistically significant, denoted by an asterisk (\*) for values ranging from 0.01 to less than 0.05. Additionally, a hash symbol (#) indicates  $p$ -values between 0.05 and 0.1, suggesting a trend toward significance, which could be confirmed with an expanded sample size.



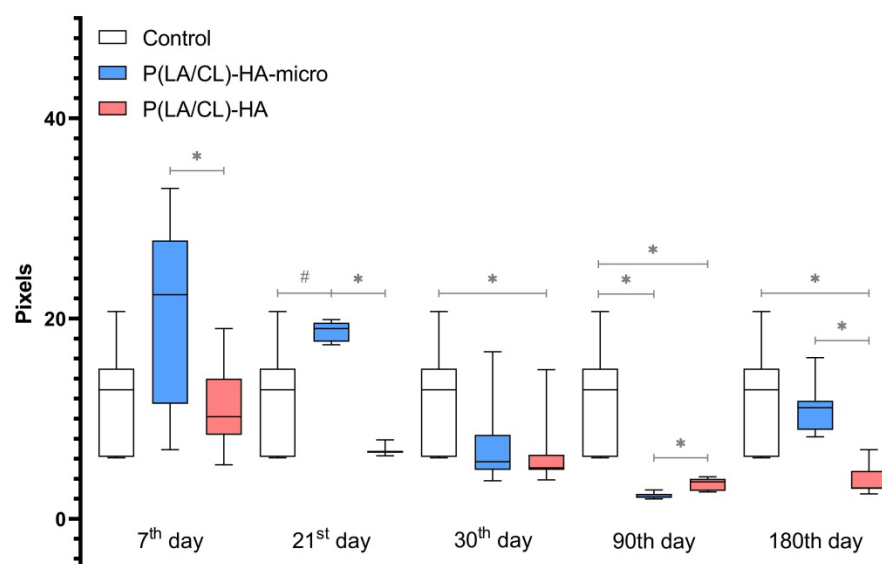
**Figure S7.** A series of box plots systematically presents data on collagen density for two specific groups, P(LA/CL)-HA-micro and P(LA/CL)-HA, at five distinct post-implantation time points. Each plot offers a detailed five-number summary, including the minimum, first quartile (Q1), median, third quartile (Q3), and maximum values, with each metric quantified in pixels. This visual format provides a thorough examination of the variability and distribution of collagen density across each group throughout the study, clearly illustrating the central tendencies and variability of the data.



**Figure S8.** A collection of box plots systematically displays data on the density of type I collagen in the dermis across three groups: the control, P(LA/CL)-HA-micro, and P(LA/CL)-HA, over five specific time points in the post-implantation phase. Each plot outlines a comprehensive five-number summary that includes the minimum, first quartile (Q1), median, third quartile (Q3), and maximum values, each quantified in pixels. This graphical presentation provides a thorough examination of the variability and distribution of type I collagen density within the dermis of each group throughout the study, effectively delineating the central tendencies and spread of the data. Results obtaining a  $p$ -value less than 0.05 were classified as statistically significant, marked with an asterisk (\*) for values between 0.01 and 0.05.

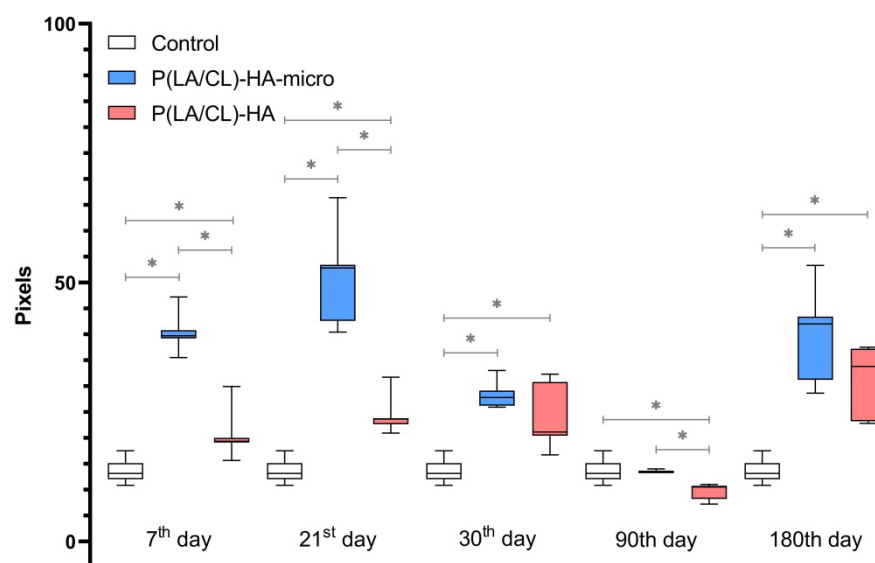


**Figure S9.** A sequence of box plots effectively illustrates the density of type I collagen in the hypodermis for three distinct groups: the control, P(LA/CL)-HA-micro, and P(LA/CL)-HA, at five designated time points following implantation. Each plot contains a five-number summary, including the minimum, first quartile (Q1), median, third quartile (Q3), and maximum, all quantified in pixels. These graphical depictions provide a detailed evaluation of the variability and distribution of type I collagen density within each group's hypodermis over time, clearly outlining the central tendencies and variations in the dataset. The findings achieving a  $p$ -value of less than 0.05 were deemed statistically significant, indicated with an asterisk (\*) for values between 0.01 and 0.05.

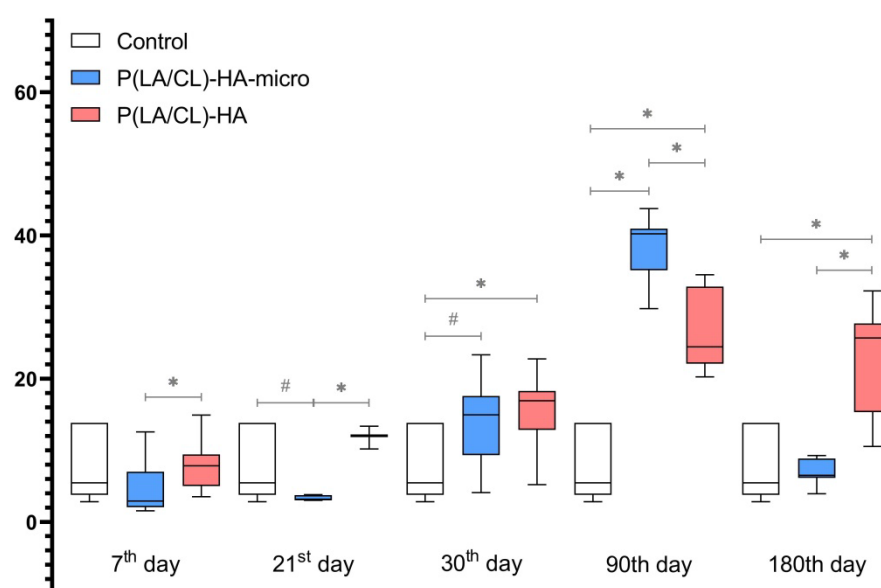


**Figure S10.** A set of box plots methodically presents the density of type III collagen in the dermis across three groups: the control, P(LA/CL)-HA-micro, and P(LA/CL)-HA, at five consecutive time points following implantation. Each plot articulates a comprehensive five-number summary, encompassing the minimum, first quartile (Q1), median, third quartile (Q3), and maximum values, all quantified in pixels. This graphical portrayal provides an exhaustive examination of the variability and distribution of type III collagen density within each group's dermis over the specified period, effectively highlighting the central tendencies and range of the data. Outcomes yielding a  $p$ -value less than 0.05 were regarded as statistically significant, marked with an asterisk (\*) for values between 0.01 and 0.05. Additionally, a hash symbol (#) identifies  $p$ -values between 0.05 and 0.1,

indicating a trend toward significance and suggesting that conclusive results might be obtainable with a larger dataset.

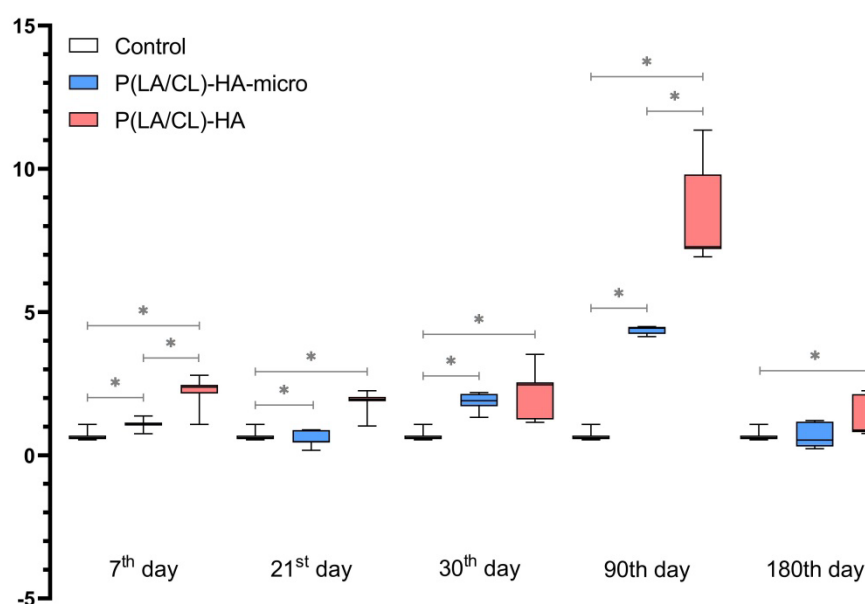


**Figure S11.** A series of box plots meticulously presents the density of type III collagen in the hypodermis for three groups: the control, P(LA/CL)-HA-micro, and P(LA/CL)-HA, measured at five specific time points during the post-implantation phase. Each plot provides a detailed five-number summary, including the minimum, first quartile (Q1), median, third quartile (Q3), and maximum, all quantified in pixels. This visual representation offers an in-depth analysis of the variability and distribution of type III collagen density within the hypodermis of each group, succinctly summarizing the central tendencies and dispersion of the data. Findings with a  $p$ -value below 0.05 were deemed statistically significant, indicated by an asterisk (\*) for values ranging from 0.01 to less than 0.05.

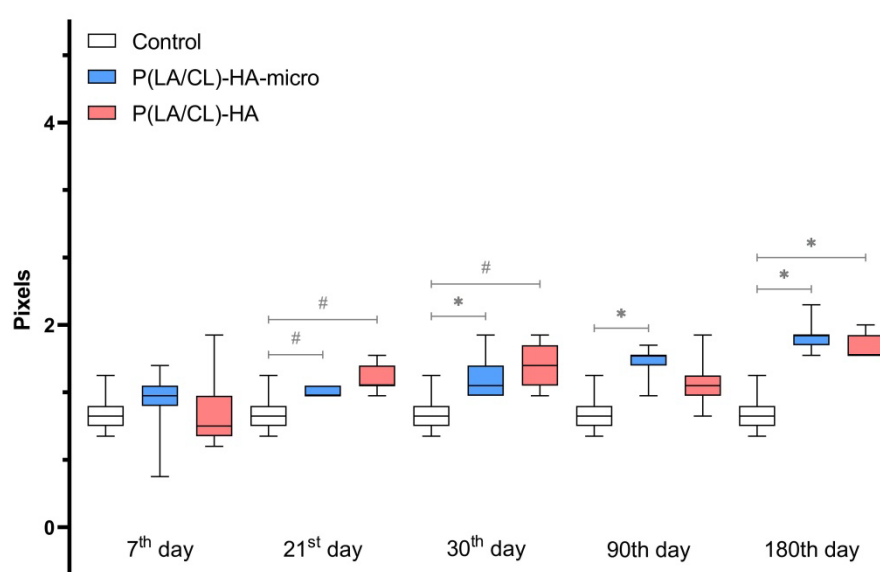


**Figure S12.** A series of box plots methodically captures data on the ratio of type I to type III collagen in the dermis across three specific groups: the control, P(LA/CL)-HA-micro, and P(LA/CL)-HA, at five different time points during the post-implantation phase. Each plot provides a detailed five-number summary: minimum, first quartile (Q1), median, third quartile (Q3), and maximum. This graphical representation offers a thorough examination of the variability and distribution of the type

I/III collagen ratio in the dermis within each group, succinctly illustrating the central tendencies and fluctuations of the data. Results yielding a  $p$ -value below 0.05 were classified as statistically significant, marked with an asterisk (\*) for values between 0.01 and 0.05.



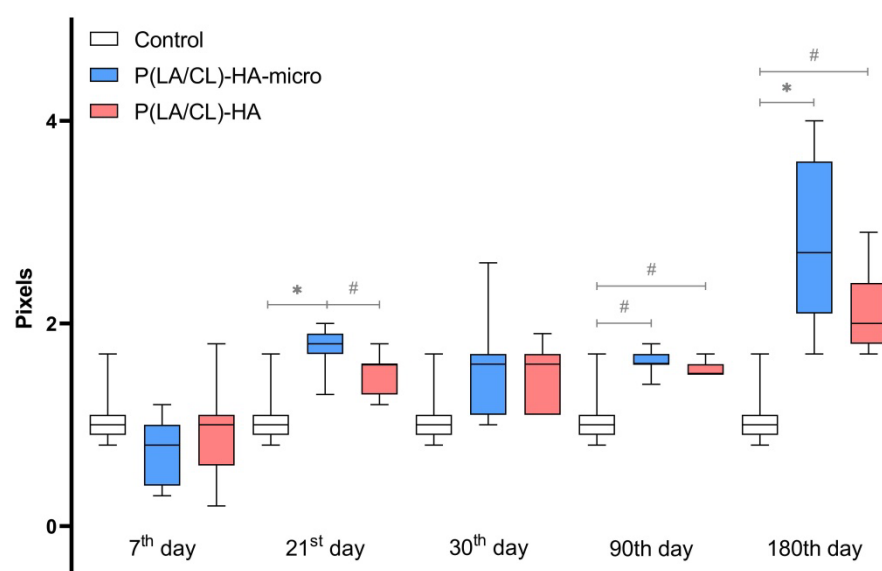
**Figure S13.** A collection of box plots was created to depict the ratios of type I to type III collagen in the hypodermis among three groups: the control, P(LA/CL)-HA-micro, and P(LA/CL)-HA, observed at five distinct time points during the post-implantation phase. Each plot delivers a comprehensive five-number summary, including the minimum, first quartile (Q1), median, third quartile (Q3), and maximum values. This graphical illustration provides a meticulous analysis of the variability and distribution of the type I/III collagen ratio within the hypodermis of each group throughout the period, clearly delineating the central tendencies and variations in the data. Results with a  $p$ -value under 0.05 were deemed statistically significant, marked with an asterisk (\*) for  $0.01 \leq p < 0.05$ .



**Figure S14.** A sequence of box plots systematically visualizes data on the density of elastin in the dermis for three distinct groups: the control, P(LA/CL)-HA-micro, and P(LA/CL)-HA, over five consecutive time points in the post-implantation phase. Each plot outlines a detailed five-number



summary that includes the minimum, first quartile (Q1), median, third quartile (Q3), and maximum values, all quantified in pixels. This graphical representation offers a thorough analysis of the variability and distribution of elastin density within the dermis of each group over time, succinctly capturing the central tendencies and dispersion of the data. Outcomes with a  $p$ -value below 0.05 were considered statistically significant, marked with an asterisk (\*) for values between 0.01 and 0.05. Additionally, a hash symbol (#) denotes  $p$ -values between 0.05 and 0.1, indicating a potential trend toward significance, suggesting that definitive results might be confirmed with a larger dataset.



**Figure S15.** A series of box plots methodically displays the density of elastin in the hypodermis for three distinct groups—the control, P(LA/CL)-HA-micro, and P(LA/CL)-HA—across five specific time points during the post-implantation phase. Each plot delivers a comprehensive five-number summary, capturing the minimum, first quartile (Q1), median, third quartile (Q3), and maximum values, each quantified in pixels. This visual format provides an in-depth assessment of the variability and distribution of elastin density within the hypodermis of each group over time, concisely illustrating the central tendencies and range of the data. Results with a  $p$ -value below 0.05 were deemed statistically significant, marked with an asterisk (\*) for  $0.01 \leq p < 0.05$ . A hash mark (#) indicates  $p$ -values ranging from 0.05 to 0.1, pointing to a potential trend towards significance, suggesting that more conclusive results might be obtained with a larger dataset.

## 2. Supplementary tables

**Table S1.** Descriptive Statistics for P(LA/CL)-HA on Each Studied Day and Across All Days Combined.

Days	M ± SD	Me [25%;75%]	Min	Max
<b>Dermal Thickness, microns</b>				
All days	2224.19 ± 139.66	2291.30 [1694.34;2783.01]	871.18	3415.64
7th day	1389.06 ± 168.33	1326.79 [1240.45;1694.34]	871.18	1812.54
21st day	1615.90 ± 117.35	1547.48 [1421.23;1838.80]	1334.04	1937.94
30th day	2451.81 ± 151.96	2291.30 [2217.14;2613.92]	2163.65	2973.04
90th day	2619.65 ± 93.86	2640.25 [2516.76;2783.01]	2319.11	2839.12
180th day	3044.56 ± 154.96	3094.64 [2965.29;3244.64]	2502.57	3415.64
<b>Thickness of the Fibrous Sheath, microns</b>				
All days	72.81 ± 7.32	61.42 [45.62;101.04]	29.43	167.06
7th day	35.39 ± 2.91	33.91 [30.69;37.24]	29.43	45.68
21st day	52.58 ± 3.51	47.96 [47.02;60.86]	45.65	61.42
30th day	96.48 ± 4.22	101.04 [88.71;103.15]	84.15	105.33
90th day	56.03 ± 9.40	45.62 [41.94;73.86]	35.70	83.03
180th day	123.58 ± 13.21	117.73 [113.09;133.36]	86.68	167.06
<b>Diameter of Blood Vessels, microns</b>				
All days	130.89 ± 17.17	106.23 [73.63;175.50]	40.32	435.79
7th day	103.01 ± 37.74	71.42 [49.24;107.38]	40.32	246.71
21st day	113.82 ± 20.01	106.61 [87.42;143.58]	59.35	172.16
30th day	175.29 ± 70.83	75.41 [73.63;217.98]	73.63	435.79
90th day	137.33 ± 24.48	152.47 [106.23;179.03]	58.44	190.49
180th day	124.98 ± 25.06	103.88 [81.22;175.50]	70.75	193.55
<b>Relative Vascular Bed Area, %</b>				
All days	9.80 ± 0.75	8.30 [6.91;13.70]	4.69	16.30
7th day	7.55 ± 0.35	7.71 [6.91;8.26]	6.57	8.29
21st day	5.99 ± 0.40	6.11 [5.66;6.34]	4.69	7.14
30th day	10.54 ± 1.85	10.00 [7.40;13.70]	5.90	15.70
90th day	13.30 ± 1.23	13.70 [13.00;14.60]	8.90	16.30
180th day	11.60 ± 1.61	9.60 [9.10;15.20]	8.30	15.80
<b>Fibrocytes, count</b>				
All days	8068.60 ± 853.27	6336.00 [5651.00;9247.00]	2740.00	18836.00
7th day	5822.20 ± 456.23	5651.00 [4966.00;6507.00]	4795.00	7192.00
21st day	6061.80 ± 245.82	5822.00 [5822.00;5993.00]	5651.00	7021.00
30th day	15342.60 ± 1685.28	16610.00 [12329.00;18493.00]	10445.00	18836.00
90th day	7808.20 ± 934.13	7192.00 [6507.00;9247.00]	5479.00	10616.00
180th day	5308.20 ± 665.33	5993.00 [5308.00;6164.00]	2740.00	6336.00
<b>Collagen Density, pixels</b>				
All days	160.27 ± 5.78	155.86 [150.72;163.86]	149.78	181.14
<b>Density of Type I Collagen in the Dermis, pixels</b>				
All days	81.80 ± 1.35	80.70 [79.20;86.20]	66.50	93.20
7th day	75.26 ± 2.89	79.20 [70.20;79.80]	66.50	80.60
21st day	81.18 ± 0.81	80.70 [80.50;81.10]	79.40	84.20
30th day	84.82 ± 2.28	86.20 [82.20;88.80]	77.30	89.60
90th day	89.78 ± 1.45	90.40 [88.30;92.00]	85.00	93.20
180th day	77.94 ± 2.44	77.00 [73.60;80.60]	72.60	85.90

Density of Type I Collagen in the Hypodermis, pixels				
All days	49.91 ± 3.29	46.00 [38.60;52.10]	28.30	81.70
7th day	42.34 ± 2.64	43.50 [43.20;45.60]	32.20	47.20
21st day	43.30 ± 2.75	46.00 [45.00;46.00]	32.40	47.10
30th day	47.74 ± 4.21	52.00 [38.60;52.10]	37.20	58.80
90th day	78.36 ± 1.13	77.20 [76.30;80.40]	76.20	81.70
180th day	37.82 ± 5.16	30.30 [29.70;49.40]	28.30	51.40
Density of Type III Collagen in the Dermis, pixels				
All days	6.57 ± 0.82	5.40 [3.90;6.90]	2.50	19.00
7th day	11.40 ± 2.36	10.20 [8.40;14.00]	5.40	19.00
21st day	6.86 ± 0.27	6.70 [6.60;6.80]	6.30	7.90
30th day	7.04 ± 2.00	5.10 [4.90;6.40]	3.90	14.90
90th day	3.48 ± 0.31	3.70 [2.80;4.00]	2.70	4.20
180th day	4.06 ± 0.81	3.10 [3.00;4.80]	2.50	6.90
Density of Type III Collagen in the Hypodermis, pixels				
All days	22.00 ± 1.75	21.10 [16.70;29.90]	7.20	37.50
7th day	20.78 ± 2.40	19.20 [19.20;20.00]	15.60	29.90
21st day	24.52 ± 1.87	23.60 [22.60;23.80]	20.90	31.70
30th day	24.26 ± 3.08	21.10 [20.40;30.80]	16.70	32.30
90th day	9.52 ± 0.76	10.60 [8.20;10.60]	7.20	11.00
180th day	30.90 ± 3.29	33.80 [23.20;37.20]	22.80	37.50
Ratio of Type I/III Collagen in the Dermis				
All days	16.87 ± 1.79	14.93 [10.52;22.77]	3.50	34.52
7th day	8.14 ± 1.99	7.82 [5.01;9.43]	3.50	14.93
21st day	11.91 ± 0.51	11.93 [11.85;12.23]	10.19	13.37
30th day	15.20 ± 2.96	16.90 [12.84;18.29]	5.19	22.77
90th day	26.83 ± 2.89	24.43 [22.08;32.86]	20.24	34.52
180th day	22.29 ± 4.04	25.67 [15.33;27.71]	10.52	32.24
Ratio of Type I/III Collagen in the Hypodermis				
All days	3.21 ± 0.58	2.25 [1.25;2.79]	0.76	11.35
7th day	2.17 ± 0.29	2.38 [2.16;2.46]	1.08	2.79
21st day	1.83 ± 0.21	1.95 [1.89;2.04]	1.02	2.25
30th day	2.19 ± 0.44	2.46 [1.25;2.55]	1.15	3.52
90th day	8.51 ± 0.88	7.28 [7.20;9.80]	6.93	11.35
180th day	1.37 ± 0.34	0.88 [0.81;2.13]	0.76	2.25
Density of Elastin in the Dermis, pixels				
All days	1.50 ± 0.07	1.50 [1.30;1.70]	0.80	2.00
7th day	1.18 ± 0.20	1.00 [0.90;1.30]	0.80	1.90
21st day	1.48 ± 0.07	1.40 [1.40;1.60]	1.30	1.70
30th day	1.60 ± 0.11	1.60 [1.40;1.80]	1.30	1.90
90th day	1.44 ± 0.13	1.40 [1.30;1.50]	1.10	1.90
180th day	1.80 ± 0.06	1.70 [1.70;1.90]	1.70	2.00
Density of Elastin in the Hypoermis, pixels				
All days	1.53 ± 0.11	1.60 [1.20;1.80]	0.20	2.90
7th day	0.94 ± 0.27	1.00 [0.60;1.10]	0.20	1.80
21st day	1.50 ± 0.11	1.60 [1.30;1.60]	1.20	1.80
30th day	1.48 ± 0.16	1.60 [1.10;1.70]	1.10	1.90
90th day	1.56 ± 0.04	1.50 [1.50;1.60]	1.50	1.70
180th day	2.16 ± 0.22	2.00 [1.80;2.40]	1.70	2.90

**Table S2.** Descriptive Statistics for P(LA/CL)-HA-micro on Each Studied Day and Across All Days Combined.

Days	M ± SD	Me [25%;75%]	Min	Max
<b>Dermal Thickness, microns</b>				
All days	1776.34 ± 107.46	1694.49 [1282.36;1950.11]	1080.82	2804.06
7th day	1347.50 ± 121.49	1246.79 [1207.77;1419.68]	1080.82	1782.46
21st day	1266.50 ± 30.05	1275.11 [1233.90;1282.36]	1179.35	1361.76
30th day	1688.46 ± 58.50	1694.49 [1665.69;1766.79]	1484.66	1830.66
90th day	1904.11 ± 80.16	1934.09 [1892.02;1950.11]	1623.85	2120.46
180th day	2675.13 ± 44.96	2633.04 [2609.34;2758.12]	2571.11	2804.06
<b>Thickness of the Fibrous Sheath, microns</b>				
All days	44.61 ± 3.15	39.38 [31.69;61.76]	23.81	71.59
7th day	64.28 ± 2.68	61.76 [61.76;69.28]	57.00	71.59
21st day	32.40 ± 0.98	31.69 [30.81;33.25]	30.43	35.81
30th day	53.02 ± 5.37	52.11 [43.28;64.52]	39.38	65.79
90th day	46.14 ± 5.39	39.67 [39.24;46.52]	38.34	66.91
180th day	27.23 ± 1.72	26.06 [23.98;29.65]	23.81	32.66
<b>Diameter of Blood Vessels, microns</b>				
All days	103.85 ± 10.97	101.04 [57.17;146.14]	27.75	233.56
7th day	104.09 ± 40.10	49.16 [47.76;162.21]	27.75	233.56
21st day	55.22 ± 3.91	57.17 [55.62;60.71]	40.32	62.26
30th day	118.98 ± 22.53	110.86 [101.04;111.37]	68.22	203.41
90th day	120.54 ± 21.18	111.77 [99.03;166.57]	57.02	168.31
180th day	120.41 ± 15.56	119.07 [118.14;146.14]	65.02	153.70
<b>Relative Vascular Bed Area, %</b>				
All days	12.76 ± 0.85	13.60 [10.30;15.92]	4.00	18.90
7th day	8.27 ± 1.46	8.64 [6.00;11.36]	4.00	11.36
21st day	14.22 ± 0.97	13.84 [12.24;15.92]	12.16	16.96
30th day	11.24 ± 1.96	11.70 [7.80;13.60]	6.10	17.00
90th day	14.78 ± 2.27	17.60 [10.30;18.80]	8.30	18.90
180th day	15.26 ± 0.94	14.50 [14.00;15.10]	13.80	18.90
<b>Fibrocytes, count</b>				
All days	7404.08 ± 800.49	6164.00 [5137.00;7877.00]	2911.00	17295.00
7th day	5924.60 ± 512.56	6164.00 [5137.00;6507.00]	4452.00	7363.00
21st day	3801.40 ± 402.97	3596.00 [3425.00;3767.00]	2911.00	5308.00
30th day	13869.80 ± 1666.38	14897.00 [11130.00;17123.00]	8904.00	17295.00
90th day	6746.60 ± 389.00	6849.00 [6164.00;7192.00]	5651.00	7877.00
180th day	6678.00 ± 1177.63	6164.00 [5308.00;6507.00]	4281.00	11130.00
<b>Collagen Density, pixels</b>				
All days	161.81 ± 4.38	161.90 [158.78;169.44]	147.12	171.80
<b>Density of Type I Collagen in the Dermis, pixels</b>				
All days	63.70 ± 5.31	72.20 [59.20;86.00]	13.80	88.70
7th day	62.16 ± 1.58	61.40 [59.20;65.80]	58.50	65.90
21st day	81.36 ± 3.67	85.20 [78.30;86.20]	68.40	88.70
30th day	87.26 ± 0.47	87.50 [86.40;87.90]	86.00	88.50
90th day	72.46 ± 2.63	72.40 [72.20;75.90]	63.10	78.70
180th day	15.26 ± 0.94	14.50 [14.00;15.10]	13.80	18.90
<b>Density of Type I Collagen in the Hypodermis, pixels</b>				
All days	40.82 ± 3.13	43.50 [34.60;56.10]	11.40	60.20

7th day	43.00 ± 2.17	44.30 [42.30;44.60]	35.30	48.50
21st day	26.78 ± 4.71	24.90 [24.20;36.00]	11.40	37.40
30th day	51.78 ± 2.40	52.80 [49.90;56.10]	43.50	56.60
90th day	58.80 ± 0.64	59.10 [57.90;60.00]	56.80	60.20
180th day	23.74 ± 5.12	22.20 [13.50;34.60]	12.00	36.40
<b>Density of Type III Collagen in the Dermis, pixels</b>				
All days	12.10 ± 1.71	11.10 [4.90;17.70]	2.00	33.10
7th day	20.34 ± 4.91	22.40 [11.50;27.80]	6.90	33.10
21st day	18.72 ± 0.50	19.00 [17.70;19.60]	17.40	19.90
30th day	7.90 ± 2.33	5.70 [4.90;8.40]	3.80	16.70
90th day	2.34 ± 0.16	2.20 [2.10;2.50]	2.00	2.90
180th day	11.22 ± 1.39	11.10 [8.90;11.80]	8.20	16.10
<b>Density of Type III Collagen in the Hypodermis, pixels</b>				
All days	34.64 ± 2.89	35.50 [26.20;42.60]	13.30	66.40
7th day	40.48 ± 1.90	39.70 [39.20;40.80]	35.50	47.20
21st day	51.12 ± 4.63	52.80 [42.60;53.40]	40.40	66.40
30th day	28.40 ± 1.29	27.80 [26.20;29.10]	25.90	33.00
90th day	13.50 ± 0.13	13.40 [13.40;13.40]	13.30	14.00
180th day	39.70 ± 4.47	42.00 [31.20;43.40]	28.60	53.30
<b>Ratio of Type I/III Collagen in the Dermis</b>				
All days	13.46 ± 2.74	7.00 [3.72;17.59]	1.53	43.75
7th day	5.21 ± 2.08	2.92 [2.04;7.00]	1.53	12.58
21st day	3.34 ± 0.17	3.09 [3.08;3.72]	3.02	3.79
30th day	13.86 ± 3.32	14.95 [9.33;17.59]	4.10	23.34
90th day	37.98 ± 2.47	40.23 [35.16;40.95]	29.79	43.75
180th day	6.93 ± 0.97	6.50 [6.14;8.84]	3.92	9.26
<b>Ratio of Type I/III Collagen in the Hypodermis</b>				
All days	1.71 ± 0.29	1.17 [0.75;2.14]	0.17	4.49
7th day	1.08 ± 0.10	1.12 [1.04;1.13]	0.75	1.37
21st day	0.57 ± 0.14	0.47 [0.45;0.88]	0.17	0.89
30th day	1.85 ± 0.16	1.90 [1.71;2.14]	1.32	2.19
90th day	4.36 ± 0.07	4.44 [4.24;4.48]	4.14	4.49
180th day	0.69 ± 0.21	0.53 [0.31;1.17]	0.23	1.21
<b>Density of Elastin in the Dermis, pixels</b>				
All days	1.51 ± 0.07	1.40 [1.30;1.70]	0.50	2.20
7th day	1.20 ± 0.19	1.30 [1.20;1.40]	0.50	1.60
21st day	1.34 ± 0.02	1.30 [1.30;1.40]	1.30	1.40
30th day	1.50 ± 0.11	1.40 [1.30;1.60]	1.30	1.90
90th day	1.62 ± 0.09	1.70 [1.60;1.70]	1.30	1.80
180th day	1.90 ± 0.08	1.90 [1.80;1.90]	1.70	2.20
<b>Density of Elastin in the Hypoermis, pixels</b>				
All days	1.70 ± 0.17	1.70 [1.20;1.90]	0.30	4.00
7th day	0.74 ± 0.17	0.80 [0.40;1.00]	0.30	1.20
21st day	1.74 ± 0.12	1.80 [1.70;1.90]	1.30	2.00
30th day	1.60 ± 0.28	1.60 [1.10;1.70]	1.00	2.60
90th day	1.62 ± 0.07	1.60 [1.60;1.70]	1.40	1.80
180th day	2.82 ± 0.44	2.70 [2.10;3.60]	1.70	4.00

**Table S3.** Descriptive Statistics for the Control Samples on Each Studied Day and Across All Days Combined.

<b>Indicators</b>	<b>M ± SD</b>	<b>Me [25%;75%]</b>	<b>Min</b>	<b>Max</b>
Dermal Thickness, microns	1981.14 ± 89.64	1995.13 [1947.83;2080.66]	1670.60	2211.46
Diameter of Blood Vessels, microns	70.70 ± 11.85	74.35 [58.15;81.62]	34.21	105.15
Relative Vascular Bed Area, %	5.19 ± 1.26	5.23 [2.73;6.50]	2.30	9.17
Fibrocytes, count	4281.00 ± 678.60	4795.00 [4281.00;4966.00]	1712.00	5651.00
Density of Type I Collagen in the Dermis, pixels	71.12 ± 6.22	70.30 [58.30;84.50]	56.60	85.90
Density of Type I Collagen in the Hypodermis, pixels	9.20 ± 0.76	9.10 [8.10;9.80]	7.30	11.70
Density of Type III Collagen in the Dermis, pixels	12.18 ± 2.77	12.90 [6.20;15.00]	6.10	20.70
Density of Type III Collagen in the Hypodermis, pixels	13.70 ± 1.18	13.10 [12.00;15.10]	10.80	17.50
Ratio of Type I/III Collagen in the Dermis	7.95 ± 2.45	5.45 [3.77;13.85]	2.82	13.85
Ratio of Type I/III Collagen in the Hypodermis	0.70 ± 0.10	0.61 [0.56;0.69]	0.54	1.08
Density of Elastin in the Dermis, pixels	1.14 ± 0.10	1.10 [1.00;1.20]	0.90	1.50
Density of Elastin in the Hypodermis, pixels	1.10 ± 0.16	1.00 [0.90;1.10]	0.80	1.70