

BEAUTYTEK-STUDY: Abstract of the results

The treatment according to the beautytek-method has shown good efficacy on **all** female test subjects. Both in the breast and in the thigh area a positive influence for **all** measured parameters was found:

1. Measurement of skin elasticity

- **Visco-elasticity** could be increased by up to 61 % (up to 30 % on average).
- **Bio-elasticity** could be increased by up to 28 % (up to 11 % on average).

2. Measurement of skin density (ultrasound) – cellulite reduction

- In the thigh area **cellulite** could be reduced by up to 34 % (up to 20 % on average).
- In the breast area **skin density** could be improved by up to 50 % (up to 17 % on average).

3. Measurement of capillary perfusion and oxygen saturation

- Blood flow could be increased by up to 585 % (up to 104 % on average).
- Oxygen supply could be increased by up to 600 % (up to 78 % on average).

The object of the study – a reshaping of the breast, hip, and thigh area – was consistently reached by the treatment. Moreover the results of the pre-study could be reconfirmed.

→ **For detailed information please see the following scientific study by *DERMATRONNIER*.**

REPORT

ON AN EFFICACY TEST
OF A COSMETIC TREATMENT

„beautytek study“



FOR:

MEDILAB RESEARCH + TRADING GMBH & CO. •

• 97003 WÜRZBURG •

DT-NR • 19/2/04

Referring to our research assignment 19/2/04 of 20.02.2004 and your letter of 29.09.2003, we herewith submit a report on an efficacy test of a cosmetic treatment

„beautytek study“

The study was carried out with 12 voluntary female test subjects, who received 12 treatments according to the »beautytek-method« over a period of 6 weeks.

The objective of the study was to achieve a shaping of the breast area and the thigh/hip area.

With regard to the preliminary tests efficacy was to be tested by means of the following methods.

1. Measuring elasticity
2. Measuring the ultra-structure of the skin (B-Scan)
3. Measuring capillary perfusion of the skin and oxygen saturation (O2C)
4. Photo documentation

The measurement times were planned as follows: initial value without treatment (0 weeks), and after 3 and 6 weeks. For some test subjects the initial status was additionally documented 3 weeks before the start of treatment in order to exclude possible fluctuations due to their monthly cycle.

The test subjects came to our institute at the above mentioned measuring times to have the respective measurements done.

The treated area was in all cases the breast area and the thigh/hip area.

Testing Elasticity of Human Skin:

The elasticity of the skin is determined by numerous factors, especially by the water content and the subcutaneous pads. of deformations The fibre systems of the skin which have a net-like structure and consist of elastic and collagenous fibres are important to even out deformations.

There is increased tension of the skin, for example, when there is an oedema. In this case, the skin can be dented, but cannot be deformed as much by suction measurements. On the other hand, the result of extreme exsiccation (removal of body fluids or fat) is a flabby, wrinkly skin, which can easily be lifted up. These deformations recede only slowly. There are similar changes in aged skin.

For psoriasis elasticity supplies important results, especially in measurements in the psoriasis plaques which are characterized by a bulge in the skin.

The elasticity measurements are carried out with the cutometer. It consists of a micro-processor-driven pneumatic device with electronic measurement and a special measuring probe.

During the measurement the skin is sucked into the measuring probe by means of below atmospheric pressure. Here, the impression depth is recorded by an optical measuring system without contact. It is possible to carry out measurements with constant below atmospheric pressure and also with linear variably increasing below atmospheric pressure.

Prior to each measurement, maximum pressure, measurement time, the time of the pressure rise and fall as well as the number of measurement cycles are set. After the measurement, the respective curve in a coordinate system appears on the monitor. It shows the impression depth of the skin into the measuring probe during action time and its regression in the time afterwards. The characteristic pixels are approached with the cursor and the individual data is recorded.

Special software allows graphic representation of individual, repeated as well as comparative measurements.

The following graph shows the essential parameters which play a role in the evaluation of elastic properties.

1. Total expansion when skin is sucked into the measuring probe (U_f). This value is represented by the measured quantity R_o in the cutometer program.
2. Three additional key data from the elasticity profile can be used to interpret the elastic properties. They are the values of the suction phase, the values of the relaxation time and a combination of both parameters.

The suction phase is represented by the quotient

$$U_v / U_e = R6 \text{ (viscoelastic properties)}$$

and the regression phase is represented by the quotient $U_r / U_f = R7$ (biologic elasticity).

A combination of the two parts of the curve is characterized by the quotient $U_r / U_e = R5$ (elastic properties).

High frequency ultrasound diagnostic B-Scan:

Ultrasound devices are used successfully in many medical fields to clear up diagnostic questions. However, it took the development of high resolution devices to be able to use them in the field of dermatology. Tumour diagnosis and objective measurements of the healing of wounds, skin thickness, chronic skin changes, scars, cellulite, and photoaging are areas of use for this technology. In the same way it is possible to study the effects of pharmaceutical or cosmetic products on the skin and to test their efficacy in respective studies.

The use of an ultrasound device with a frequency of 20 MHz (Derma Scan C, Vers. 3) with 2-D-configuration (Cortex Technology, Denmark) facilitates the non-invasive differentiation of individual tissue structures.

256 randomly chosen colours are assigned to the different echo amplitudes. Here the lighter colours correspond to a strong reflection and dark colours to a weak reflection. This way slight differences in the reflection behaviour and in tissues can be made visible by the colour representation.

The measuring head provides an axial resolution of ca. 50 µm analogous demodulation technology. The length of the image is 12.1 mm, the penetration depth is 7 mm. 254 individual A-Scans are generated, which are subsequently assembled to form a B-Scan. The real-time representation with 8 pictures per second allows continual monitoring of the measuring process. In order to produce comparative images of individual tests, 4-color sonographic pictures can be projected onto the screen at the same time. A multifaceted software guarantees the precise measurement of the tissue areas. The saved sonograph images are printed with a video printer or exported for further processing by means of TIFF format.

LITERATURE:

1. Ultrasound in Dermatology
 P. Altmeyer, S. el. Gammal, K. Hoffmann (Eds.),
 Springer Verlag, Berlin, Heidelberg (1992)

2. Noninvasive Methode for the Quantification of Skin Functions
 P. J. Frosch, A. M. Kligman (Eds.),
 Springer Verlag, Berlin, Heidelberg (1993)

3. Ultraschall in der Dermatologie
 E. W. Breitbart, R. Hicks (Eds.)
 W. Kimming, W. Brockmann, P. Mohr
 Derm-A-Med Verlag AG, Zürich (1992)

Measuring skin perfusion and oxygen saturation of the haemoglobin (O2C):

With this method the perfusion parameters relative blood flow and blood flow velocity are determined in the measuring volume of the glass fibre probe. Furthermore, the oxygen saturation of the haemoglobin, and the relative haemoglobin amount are determined in the illuminated tissue volume. The O2C-measuring device uses laser light for the determining the perfusion parameters in the tissue. The movement of the erythrocytes triggers a Doppler shift in the detected laser light. This Doppler shift in the frequency of the detected laser light shows the blood flow velocity. The detected laser light signal increases as the number of erythrocytes goes up. This value represents the parameter Flow. In addition, a white-light source is used to detect the haemoglobin parameter oxygen saturation SO_2 and relative haemoglobin amount rHB. Oxygen saturation is determined from blood colour. The colour changes with the oxygen saturation degree of the haemoglobin. The amount of haemoglobin is determined by measuring absorption in the tissue.

In the literature, the two methods, which can be determined simultaneously are known as Laser-Doppler method for perfusion measurements and as tissue spectrometry for the determination of haemoglobin and oxygen parameters.

The measuring probe was built in such a way that one probe can determine the perfusion parameters simultaneously and depth selectively in two separate layers

LITERATURE:

1. Simultaneous Measurement of Local Cortical Blood Flow and Tissue Oxygen Saturation by Near Infra-Red Laser Doppler Flowmetry and Remission Spectroscopy in the Pig Brain
N. Walter, R. Bauer, A. Krug, T. Derfuss, F. Traichel and N. Sommer
Czosnyka et al. (eds.), Intracranial Pressure and Brain Biochemical Monitoring
Acta Neurochir. (2002) [Suppl]81: 197-199, Springer-Verlag 2002

2. Reflectance Spectro-photometry and Tissue Oxygenation in Experimental and Clinical Practice
M. P. Buise, J. van Bommel, and C. Ince
Yearbook of Intensive Care and Emergency Medicine 2003, Edited by J.-L. Vincent, Springer Verlag

Photographic documentation:

A standardised analysis was made at all measurement times, where illumination, distances, etc. were set in advance. This way, changes of the bust (height of nipples, shape of the bust) were to be documented.

Results:

In the following tables and graphs the results of all test subjects who participated in the efficacy study after treatment with the »beautytek method« are presented. They comprise the measurement data for the following methods:

1. Elasticity measurement
2. Measuring ultra-structure of the skin (B-Scan)
3. Measuring capillary perfusion and oxygen saturation (O2C)
4. Photographic documentation

For the above mentioned measurement methods the individual values for each participating test subject as well as the mean values, standard deviations, and medians at all measurement times for the whole group are shown.

In order to present the course of the study more clearly, graphs showing the changes in the individual parameters during treatment were made.

With some test subjects all measurements were carried out at the measurement time -3 (3 weeks prior to the start of treatment) in order to exclude possible cycle-dependent fluctuations of the measured values.

The measurement areas were the left and right breast and the left and right thigh.

1. Measuring elasticity (Cutometer):

Normally, the parameters R6 (visco-elastic properties) and R7 (biological elasticity) are used for measuring elasticity. An improvement of the visco-elastic properties is accompanied by a decrease of the parameter R6, while the other way round, biological elasticity is influenced positively when this parameter increases.

Through treatment according to the »beautytek method« all elastic properties, both in the breast and the thigh area, could be influenced positively.

The visco-elastic properties of the left breast improved by 11 % and of the right breast by 9 % during the 6-week test period. In the area of the left thigh the visco-elastic properties were improved by 30 %, in the right thigh by 20 % on average.

There were no significant changes between the measuring times -3 and 0 (control measurements before the start of the study).

Bio-elasticity (R7) improved by 2 % in both left and right breast. The same parameter could be improved by 11 % on the left thigh and by 7.5 % on the right thigh. There were also no significant changes between the measuring points -3 and 0 before the start of the study.

2. Measuring ultra-structure by means of B-Scan:

In the ultrasound diagnostic tests skin density and area for the breast area were determined, while on the thighs skin density and perimeter in the area to be measured were used as determining values.

Skin density in the left and right breast could be increased in the course of the 6-week treatment. The increase in skin density in the left breast was 17 % on average, and 7 % in the right breast. There were also no significant changes before the start of the study (-3 to start of the study).

The measurement area, which corresponds to the total unit of epidermis and dermis was increased by 6.5 % on the right breast and by 9.6 % on the left breast. There were no significant changes between measuring time -3 and the initial examination.

Skin Density Thigh

Density in the thigh area could also be influenced positively by the treatment. The increase in density on the left thigh was measured to be 16.6 %. On the right thigh there was an increase in density by 15.8 %. There were no significant changes before the start of the study compared to the initial state in any of the test subjects.

The perimeter of the measured area was used as a parameter to measure cellulite. Positive changes in the measured area are connected to a decrease in perimeter. This could be confirmed for both left and right thigh. On the left there was a decrease of 17 %, on the right side the decrease was 20 %. The additional analysis of the measuring times -3 to 0 did not show any changes worth mentioning.

3. Measuring capillary perfusion and oxygen saturation (O2C):

One objective of the study was to increase capillary perfusion and oxygen supply of the tissue by the massage effect. This is shown in the parameters Flow and SO₂%. However, the relative haemoglobin concentration and blood flow velocity normally stay almost constant.

Oxygen saturation of the blood in the measurement area could be increased significantly by treatment according to the »beautytek method«. This applies to the breast area as well as the thigh area.

The increases in oxygen supply in the different measurement areas were as follows:

- left breast + 28 %
- right breast + 41 %
- left thigh + 78 %
- right thigh + 65 %

Flow, measured in relative units could be increased significantly in all measurement areas in the course of the study.

The increase in flow for the whole group of test subjects in the measurement areas were determined as follows:

- left breast + 36%
- right breast + 25%
- left thigh + 75%
- right thigh + 104%

Here there were also no significant changes between the measurements carried out 3 weeks before the start of the study and measurement time 0 before the first application.

Summary of the results:

In conclusion it can be stated that the 6-week treatment according to the »beautytek method« carried out on a total of 12 voluntary female test subjects has shown good efficacy. In the course of the 6-week study all test subjects had 12 treatments. Additional measurements were carried out on individual test subjects. These took place 3 weeks before the start of the study and at measurement time 0. This was done to exclude cycle-dependent fluctuations. The test subjects did not show any significant changes at these measurement times.

Both in the breast and thigh area a positive influence for all measured parameters was found. These comprise the tests on elasticity (visco-elastic properties and bio-elasticity), measurements of skin density as well as of the areas and perimeters by means of ultrasound. The oxygen supply of the blood and capillary flow could be clearly increased by the treatments.

Thus the objective of the study – a reshaping of the breast, hip, and thigh area – was achieved by the treatment.

As an enclosure we are sending you the tables and graphs documenting the course of the study, and a photographic documentation of selected test subjects.

Witten, 2004-07-06

Prof. Dr. med. H. Tronnier

PD Dr. Ulrike Heinrich

Enclosure

Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

Microvascular blood flow right breast

	SO2%				rHB				Flow				Velo			
Test pers.	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6
1		38,2	45,4	60,5		31,2	58,6	39,2		19,0	16,1	14,6		12,9	10,9	15,3
2		16,1	15,6	43,4		16,8	14,0	20,4		20,1	24,0	30,4		15,1	31,9	28,8
3		59,1	48,8	67,1		17,3	19,4	18,6		24,3	21,6	16,1		14,3	13,8	14,2
4		28,5	57,9	82,9		16,1	20,0	20,8		10,9	6,5	28,4		15,3	10,5	20,9
5		43,1	46,4	43,9		30,5	33,4	25,1		15,2	15,1	15,8		26,1	13,1	31,5
6		52,1	50,1	63,6		25,6	21,6	30,4		7,2	3,4	9,3		10,8	9,0	13,3
7	48,7	26,7	79,4	53,9	26,9	28,0	22,4	20,3	8,1	8,0	8,8	9,6	13,7	11,5	17,0	16,9
8		18,0	69,6	21,6		33,5	50,2	27,4		4,1	15,6	16,8		14,0	11,4	24,2
9	26,9	25,2	54,6	52,3	22,0	22,3	19,5	21,3	5,5	5,4	5,1	6,1	14,6	15,1	16,3	10,5
10		49,9	30,0	31,5		26,9	22,5	21,4		11,3	7,8	8,6		17,4	22,2	13,6
11		40,8	43,9	47,9		16,7	22,1	17,7		7,6	12,4	13,2		19,4	16,1	12,9
12	59,5	47,8	75,2	62,9	21,0	24,1	19,9	19,2	16,4	6,8	13,3	5,9	23,1	16,2	18,2	13,1
AV	45,0	37,1	51,4	52,6	23,3	24,1	27,0	23,5	10,0	11,7	12,5	14,6	17,1	15,7	15,9	17,9
deviat.	16,6	14,0	18,1	16,5	3,2	6,2	13,7	6,2	5,7	6,5	6,4	7,9	5,2	4,0	6,3	6,9
median	48,7	39,5	49,45	53,1	22	24,85	21,85	21,05	8,1	9,45	12,85	13,9	14,6	15,1	14,95	14,75

Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

Microvascular blood flow left breast

	SO2%				rHB				Flow				Velo			
Test pers.	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6
1		60,9	53,4	63,4		30,9	47,2	34,1		8,5	9,5	11,0		12,6	13,0	11,3
2		59,2	62,8	75,1		16,9	19,8	13,3		20,2	19,0	38,5		18,0	16,9	18,3
3		76,7	55,5	40,1		13,7	15,2	18,3		25,4	22,7	23,8		18,8	11,8	28,2
4		22,5	60,4	72,0		16,5	19,2	16,9		20,6	14,6	15,3		17,2	9,7	10,5
5		39,8	42,3	41,4		33,1	27,3	34,3		3,9	4,3	7,1		12,4	10,9	14,9
6		41,8	49,3	62,0		31,1	21,0	20,6		4,1	5,3	11,3		13,3	10,0	15,9
7	49,5	20,5	61,4	53,2	24,7	32,5	26,7	17,3	7,0	8,4	14,3	14,2	22,6	11,1	21,1	14,6
8		15,3	48,3	37,4		31,8	46,2	34,1		11,7	17,3	18,9		14,0	20,5	24,8
9	24,5	24,2	25,6	48,2	25,3	25,0	16,4	24,9	17,3	14,4	9,3	15,2	27,3	27,1	11,3	29,3
10		31,7	30,0	32,1		24,4	20,7	19,4		8,8	6,2	9,2		15,6	14,1	15,5
11		40,6	44,3	51,1		15,7	20,3	16,3		6,3	14,5	15,2		14,2	17,1	10,8
12	58,8	60,1	79,0	56,1	19,0	19,2	39,2	21,5	10,2	11,1	14,0	16,9	11,1	12,5	11,5	22,8
AV	44,3	41,1	51,0	52,7	23,0	24,2	26,6	22,6	11,5	12,0	12,6	16,4	20,3	15,6	14,0	18,1
deviat.	17,7	19,4	14,7	13,7	3,5	7,5	11,3	7,6	5,3	6,9	5,7	8,3	8,3	4,4	4,0	6,6
median	49,5	40,2	51,35	52,15	24,7	24,7	20,85	20	10,2	9,95	14,15	15,2	22,6	14,1	12,4	15,7

Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

Microvascular blood flow right thigh

	SO2%				rHB				Flow				Velo			
Test pers.	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6
1		23,9	29,5	31,3		32,8	33,1	34,3		19,6	19,8	18,3		15,9	15,5	14,1
2		33,2	28,4	73,6		27,0	28,3	32,9		2,6	2,6	4,0		9,6	6,2	9,4
3		33,9	69,1	53,8		19,2	13,3	33,2		4,6	6,0	9,4		9,5	8,2	12,0
4		23,5	29,2	61,3		25,9	18,6	28,1		3,0	5,9	6,0		9,8	8,6	9,7
5		24,0	32,1	43,3		34,7	42,7	35,5		2,1	4,7	6,3		12,4	10,1	15,7
6		59,2	64,8	74,8		28,0	20,2	30,3		4,0	4,6	8,4		10,0	9,0	10,4
7	40,5	20,2	65,7	28,7	30,6	45,1	32,5	31,8	3,4	4,9	6,1	7,9	12,2	10,3	10,9	13,2
8		8,5	57,1	57,6		38,1	50,3	51,1		3,4	13,4	23,3		10,2	12,6	31,9
9	22,1	23,7	82,3	38,6	37,4	40,6	37,9	29,3	2,6	5,3	31,0	16,4	11,1	10,4	15,6	27,6
10		27,6	44,3	26,5		32,1	32,0	22,2		3,5	3,8	7,0		14,0	9,4	12,0
11		33,4	46,5	50,9		18,6	21,0	26,3		2,0	11,6	8,4		8,3	11,8	10,3
12	56,9	54,5	74,7	65,5	34,7	39,0	39,2	23,2	3,3	3,9	3,4	5,1	10,6	9,4	11,0	11,4
AV	39,8	30,5	52,0	50,5	34,2	31,8	30,8	31,5	3,1	4,9	9,4	10,0	11,3	10,8	10,7	14,8
deviat.	17,4	14,2	19,5	16,9	3,4	8,3	11,0	7,5	0,4	4,7	8,5	6,0	0,8	2,2	2,8	7,3
median	40,5	25,8	51,8	52,35	34,7	32,45	32,25	31,05	3,3	3,7	5,95	8,15	11,1	10,1	10,5	12,0

Efficacy test

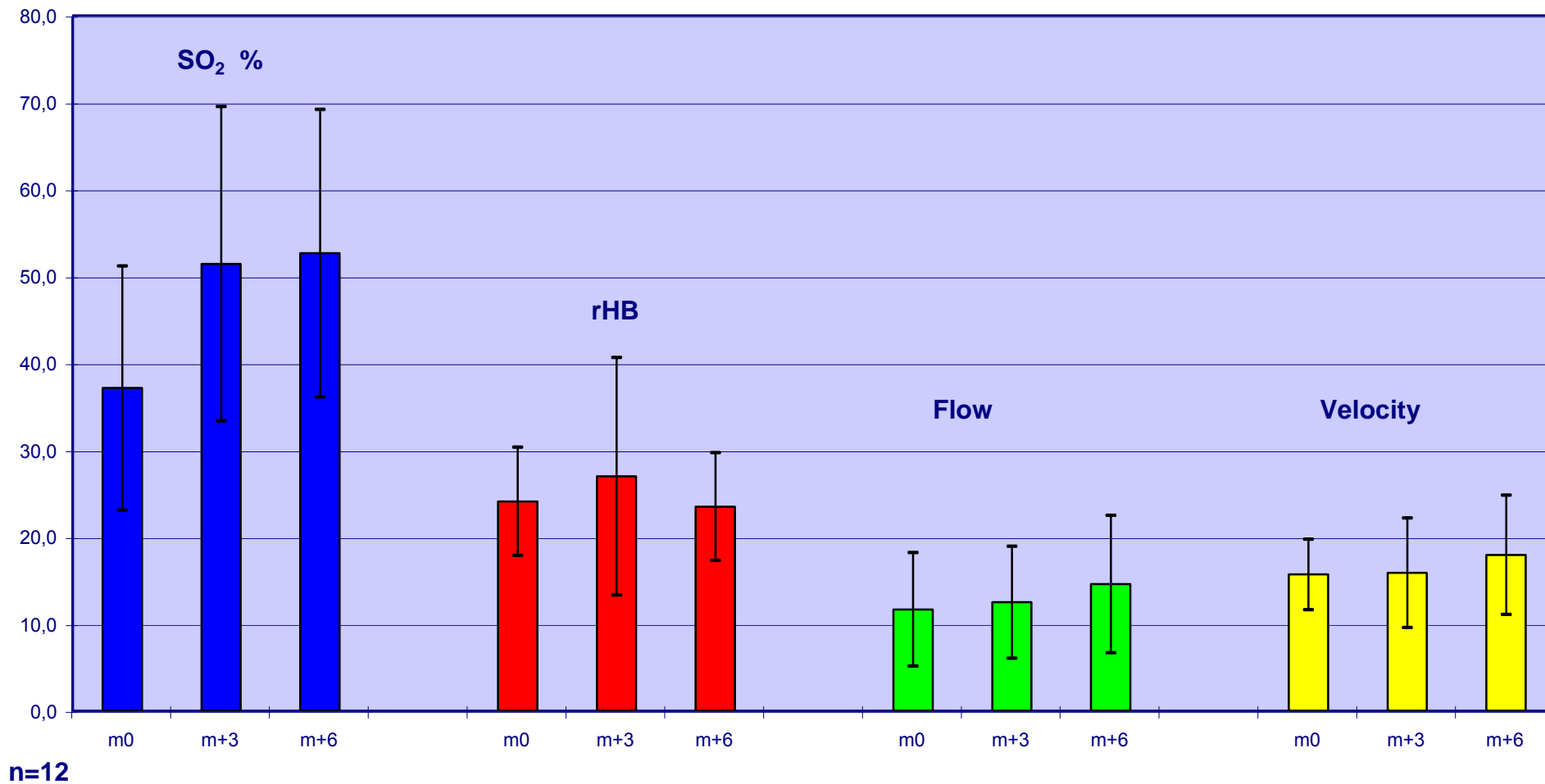
medilab GmbH & Co.

Assignment 19/2/04

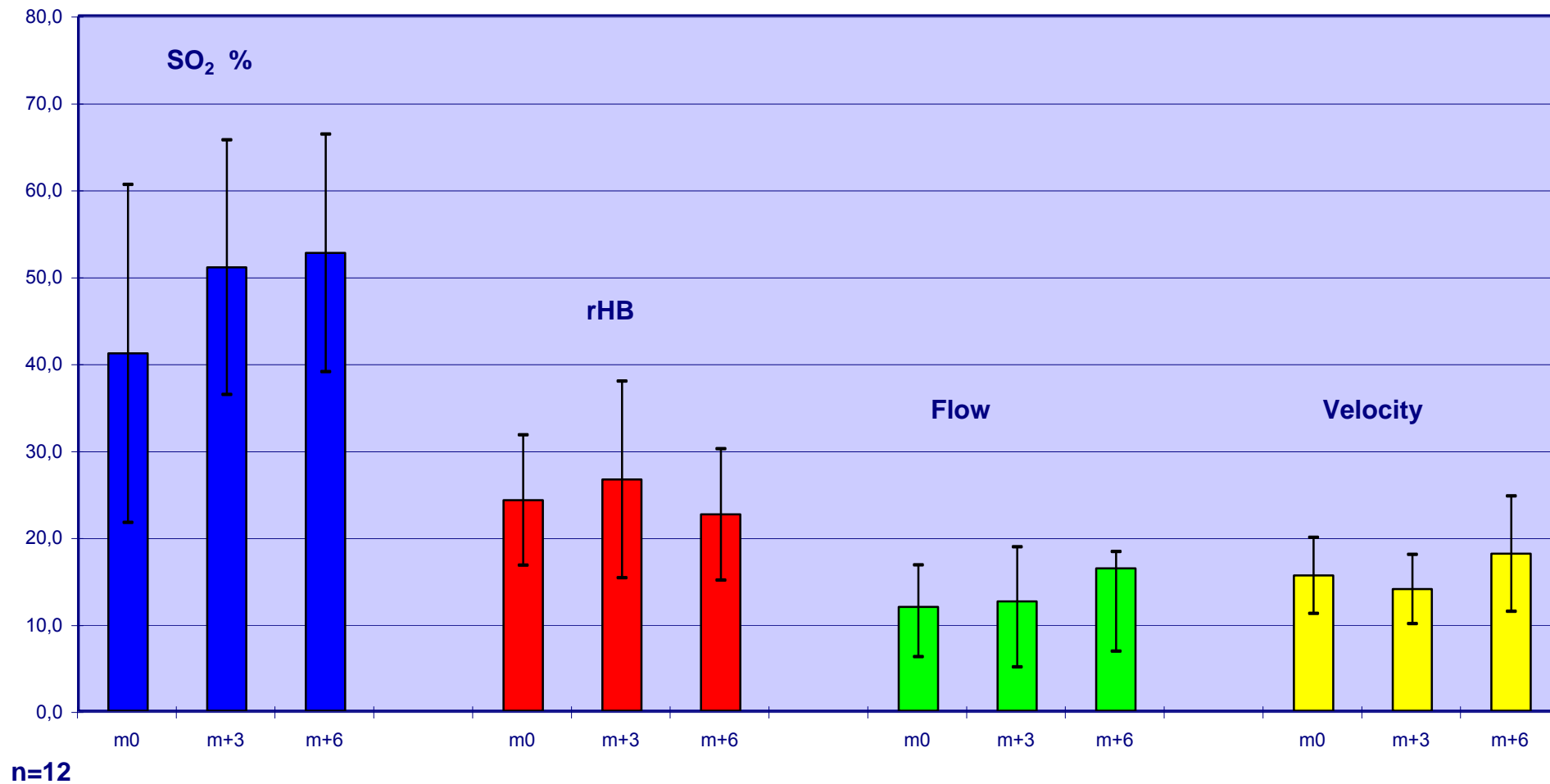
Microvascular blood flow left thigh

	SO2%				rHB				Flow				Velo			
Test pers.	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6
1		19,8	24,9	35,5		37,3	37,5	37,2		14,3	14,5	13,6		12,3	14,2	10,6
2		49,6	46,1	63,6		31,0	29,1	29,1		5,1	6,4	7,1		10,0	8,3	9,7
3		23,5	52,2	50,6		25,4	20,7	26,9		8,3	6,7	8,2		9,9	8,3	11,8
4		8,2	8,1	57,6		26,2	15,6	34,1		6,8	6,9	8,1		9,6	19,6	10,9
5		19,6	55,5	46,7		32,5	45,3	32,5		4,6	5,3	6,2		10,7	9,9	11,5
6		42,6	67,1	67,9		27,0	28,6	28,8		6,0	6,4	12,9		12,1	8,8	17,4
7	37,0	32,2	71,4	27,1	36,1	47,3	35,0	34,0	4,6	3,6	6,1	6,6	11,9	9,2	11,1	12,4
8		12,1	58,3	71,7		40,8	48,3	35,5		2,4	17,1	17,8		9,4	13,0	13,2
9	13,6	12,6	81,8	23,1	32,9	34,0	35,0	33,0	3,1	4,7	32	17,8	10,9	11,2	15,8	17,3
10		26,8	45,5	20,4		34,1	33,4	30,1		2,3	2,9	4,0		8,9	9,8	9,0
11		37,4	55,9	49,2		26,8	38,3	26,1		6,8	18,9	15,2		9,9	13,4	9,8
12	28,1	31,9	76,4	52,4	33,4	34,9	32,2	31,9	3,3	4,8	10,0	5,4	9,4	10,1	14,4	11,0
AV	26,2	26,4	53,6	47,2	34,1	33,1	33,3	31,6	3,7	5,8	11,1	10,2	10,7	10,3	12,2	12,1
deviat.	11,8	12,8	21,0	17,3	1,7	6,6	9,2	3,4	0,8	3,2	8,3	4,9	1,3	1,1	3,5	2,7
median	28,1	25,15	55,7	49,9	33,4	33,25	34,2	32,2	3,3	4,95	6,8	8,15	10,9	9,95	12,05	11,25

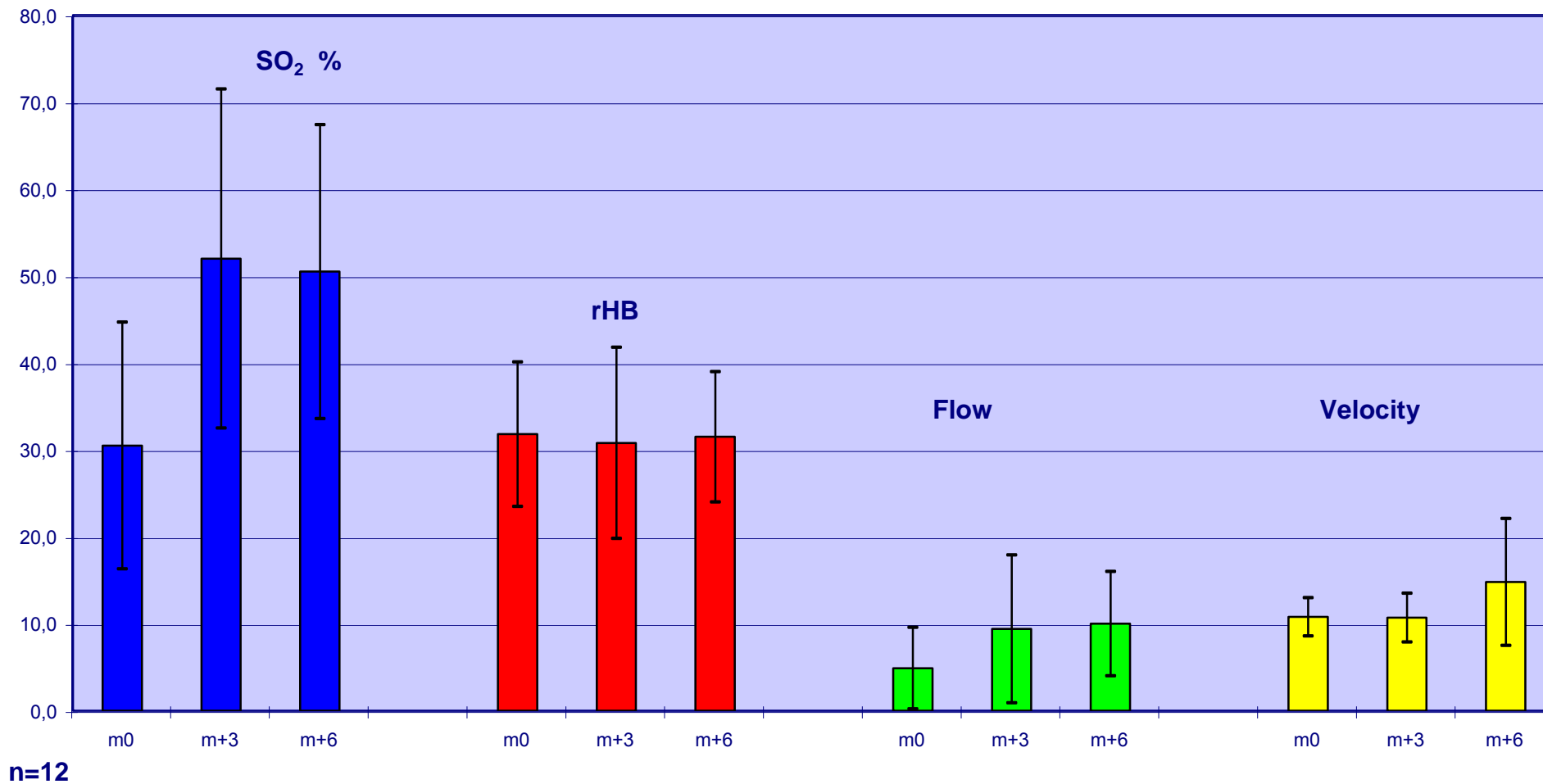
**Efficacy test
medilab assignment 19/2/04
Microvascular blood flow right breast**



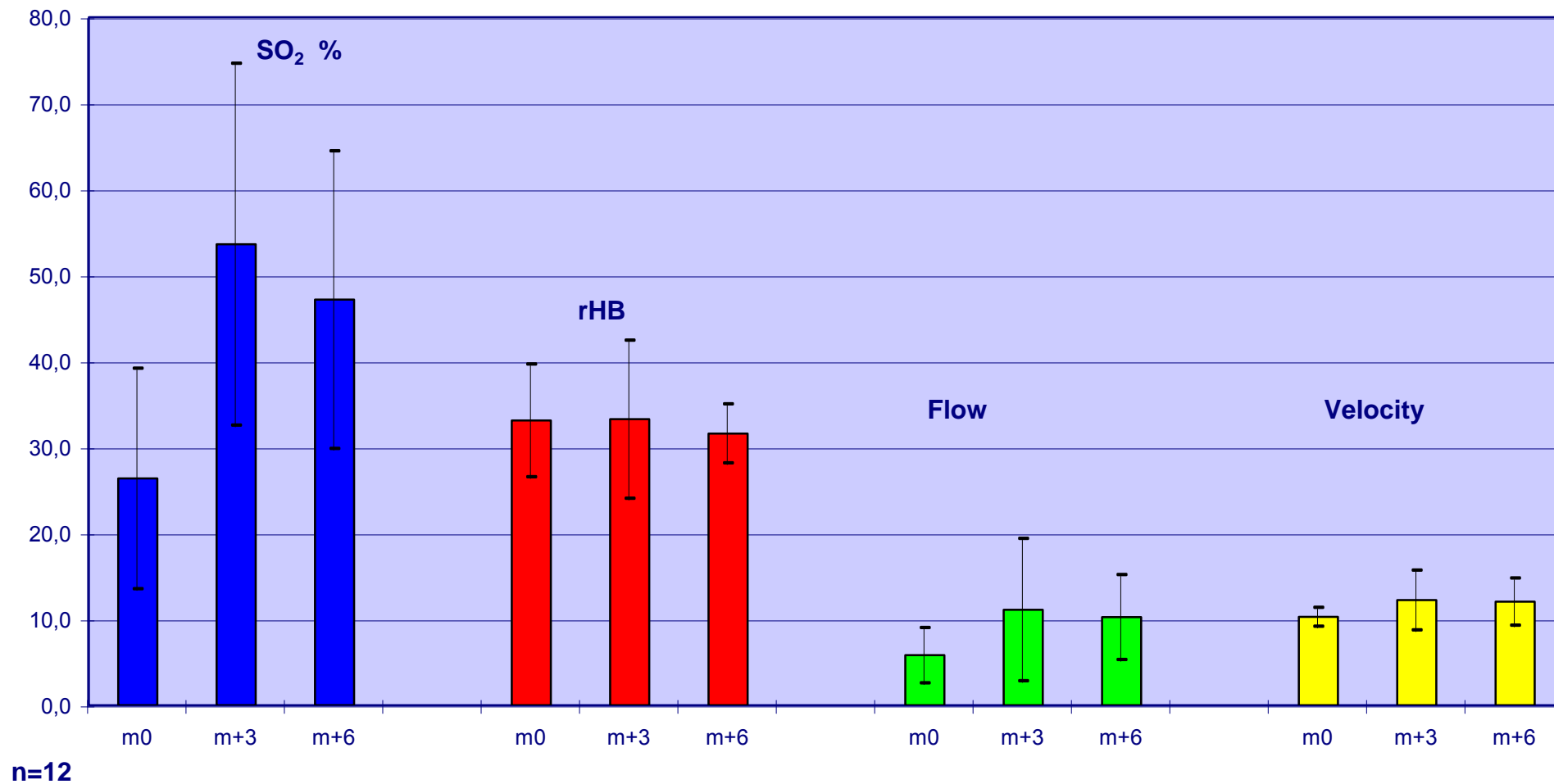
**Efficacy test
medilab assignment 19/2/04
Microvascular blood flow left breast**

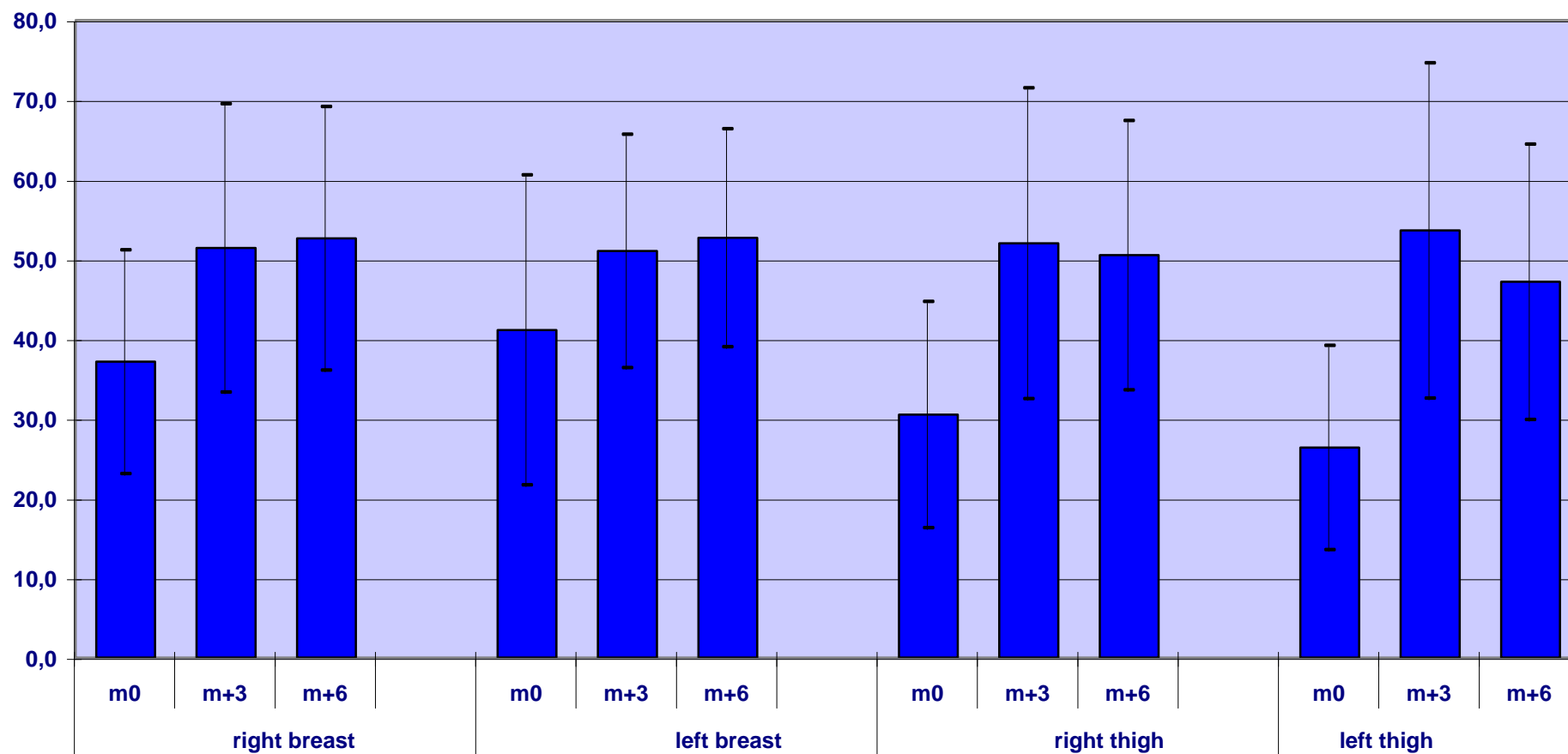


**Efficacy test
medilab assignment 19/2/04
Microvascular blood flow right thigh**



**Efficacy test
medilab assignment 19/2/04
Microvascular blood flow left thigh**

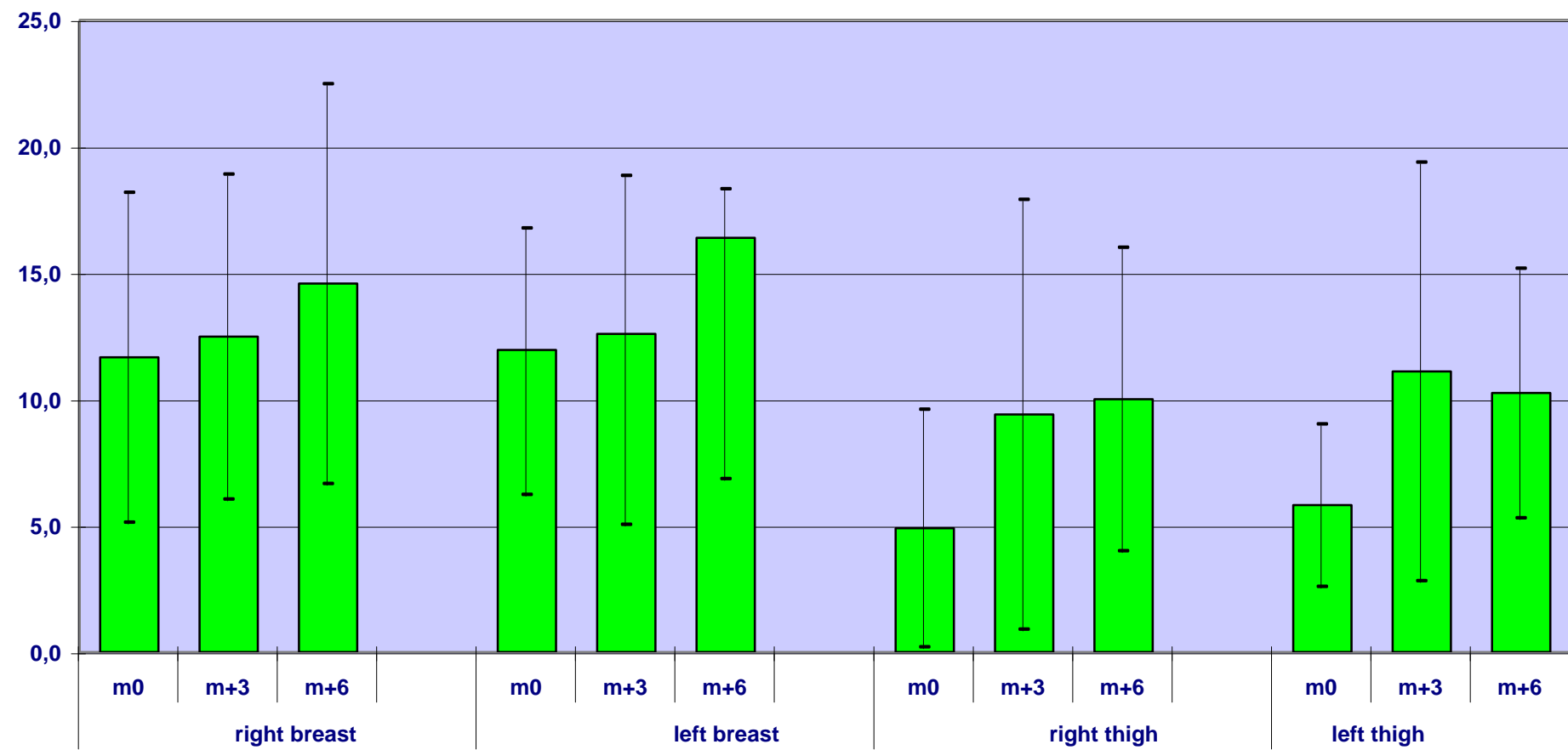


SO₂**Efficacy test
medilab assignment 19/2/04
Microvascular blood flow**

n=12

Flow

**Efficacy test
medilab assignment 19/2/04
Microvascular blood flow**



n=12

Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

Microvascular blood flow right breast

	SO2%				rHB				Flow				Velo			
Test pers.	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6
7	48,7	26,7	79,4	53,9	26,9	28,0	22,4	20,3	8,1	8,0	8,8	9,6	13,7	11,5	17,0	16,9
9	26,9	25,2	54,6	52,3	22,0	22,3	19,5	21,3	5,5	5,4	5,1	6,1	14,6	15,1	16,3	10,5
12	59,5	47,8	75,2	62,9	21,0	24,1	19,9	19,2	16,4	6,8	13,3	5,9	23,1	16,2	18,2	13,1
AV	45,0	33,2	69,7	56,4	23,3	24,8	20,6	20,3	10,0	6,7	9,1	7,2	17,1	14,3	17,2	13,5
deviat.	16,6	12,6	13,3	5,7	3,2	2,9	1,6	1,1	5,7	1,3	4,1	2,1	5,2	2,5	1,0	3,2
median	48,7	26,7	75,2	53,9	22	24,1	19,9	20,3	8,1	6,8	8,8	6,1	14,6	15,1	17	13,1

Microvascular blood flow left breast

	SO2%				rHB				Flow				Velo			
Test pers.	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6
7	49,5	20,5	61,4	53,2	24,7	32,5	26,7	17,3	7,0	8,4	14,3	14,2	22,6	11,1	21,1	14,6
9	24,5	24,2	25,6	48,2	25,3	25,0	16,4	24,9	17,3	14,4	9,3	15,2	27,3	27,1	11,3	29,3
12	58,8	60,1	79,0	56,1	19,0	19,2	39,2	21,5	10,2	11,1	14,0	16,9	11,1	12,5	11,5	22,8
AV	44,3	34,9	55,3	52,5	23,0	25,6	27,4	21,2	11,5	11,3	12,5	15,4	20,3	16,9	14,6	22,2
deviat.	17,7	21,9	27,2	4,0	3,5	6,7	11,4	3,8	5,3	3,0	2,8	1,4	8,3	8,9	5,6	7,4
median	49,5	24,2	61,4	53,2	24,7	25	26,7	21,5	10,2	11,1	14	15,2	22,6	12,5	11,5	22,8

Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

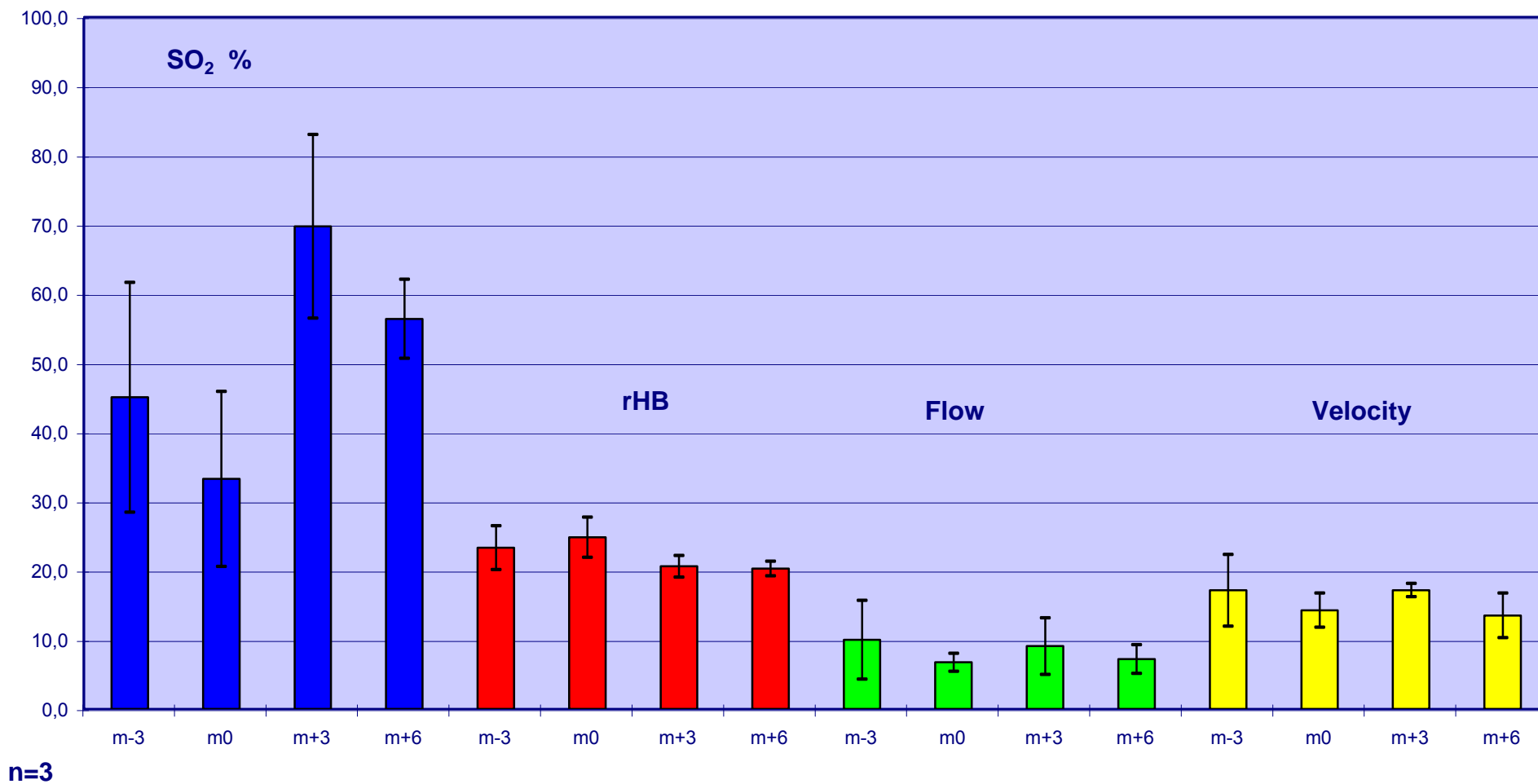
Microvascular blood flow right thigh

	SO2%				rHB				Flow				Velo			
Test pers.	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6
7	40,5	20,2	65,7	28,7	30,6	45,1	32,5	31,8	3,4	4,9	6,1	7,9	12,2	10,3	10,9	13,2
9	22,1	23,7	82,3	38,6	37,4	40,6	37,9	29,3	2,6	5,3	31,0	16,4	11,1	10,4	15,6	27,6
12	56,9	54,5	74,7	65,5	34,7	39,0	39,2	23,2	3,3	3,9	3,4	5,1	10,6	9,4	11,0	11,4
AV	39,8	32,8	74,2	44,3	34,2	41,6	36,5	28,1	3,1	4,7	13,5	9,8	11,3	10,0	12,5	17,4
deviat.	17,4	18,9	8,3	19,0	3,4	3,2	3,6	4,4	0,4	0,7	15,2	5,9	0,8	0,6	2,7	8,9
median	40,5	23,7	74,7	38,6	34,7	40,6	37,9	29,3	3,3	4,9	6,1	7,9	11,1	10,3	11	13,2

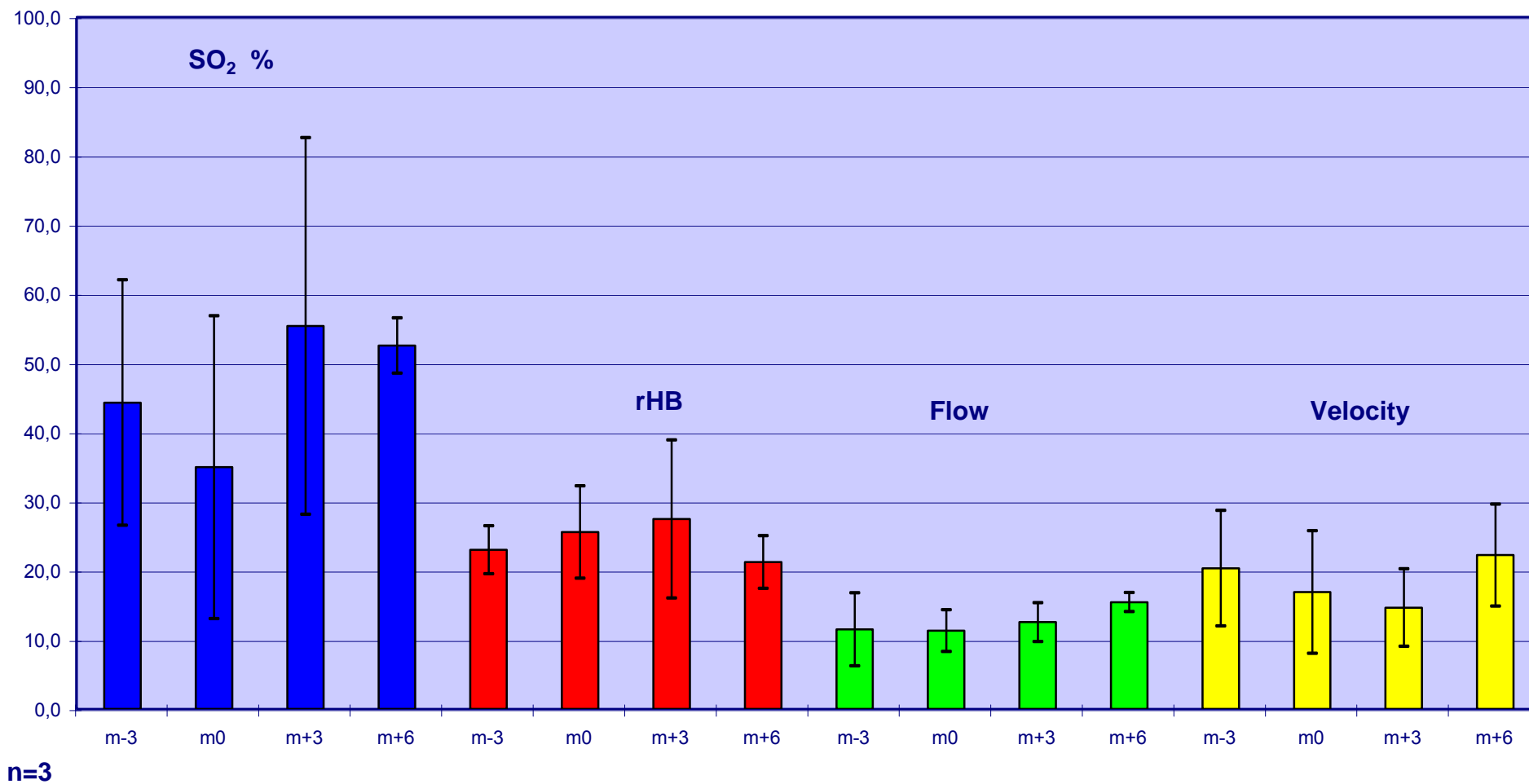
Microvascular blood flow left thigh

	SO2%				rHB				Flow				Velo			
Test pers.	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6	m-3	m0	m+3	m+6
7	37,0	32,2	71,4	27,1	36,1	47,3	35,0	34,0	4,6	3,6	6,1	6,6	11,9	9,2	11,1	12,4
9	13,6	12,6	81,8	23,1	32,9	34,0	35,0	33,0	3,1	4,7	32	17,8	10,9	11,2	15,8	17,3
12	28,1	31,9	76,4	52,4	33,4	34,9	32,2	31,9	3,3	4,8	10,0	5,4	9,4	10,1	14,4	11,0
AV	26,2	25,6	76,5	34,2	34,1	38,7	34,1	33,0	3,7	4,4	16,0	9,9	10,7	10,2	13,8	13,6
deviat.	11,8	11,2	5,2	15,9	1,7	7,4	1,6	1,1	0,8	0,7	14,0	6,8	1,3	1,0	2,4	3,3
median	28,1	31,9	76,4	27,1	33,4	34,9	35	33	3,3	4,7	10	6,6	10,9	10,1	14,4	12,4

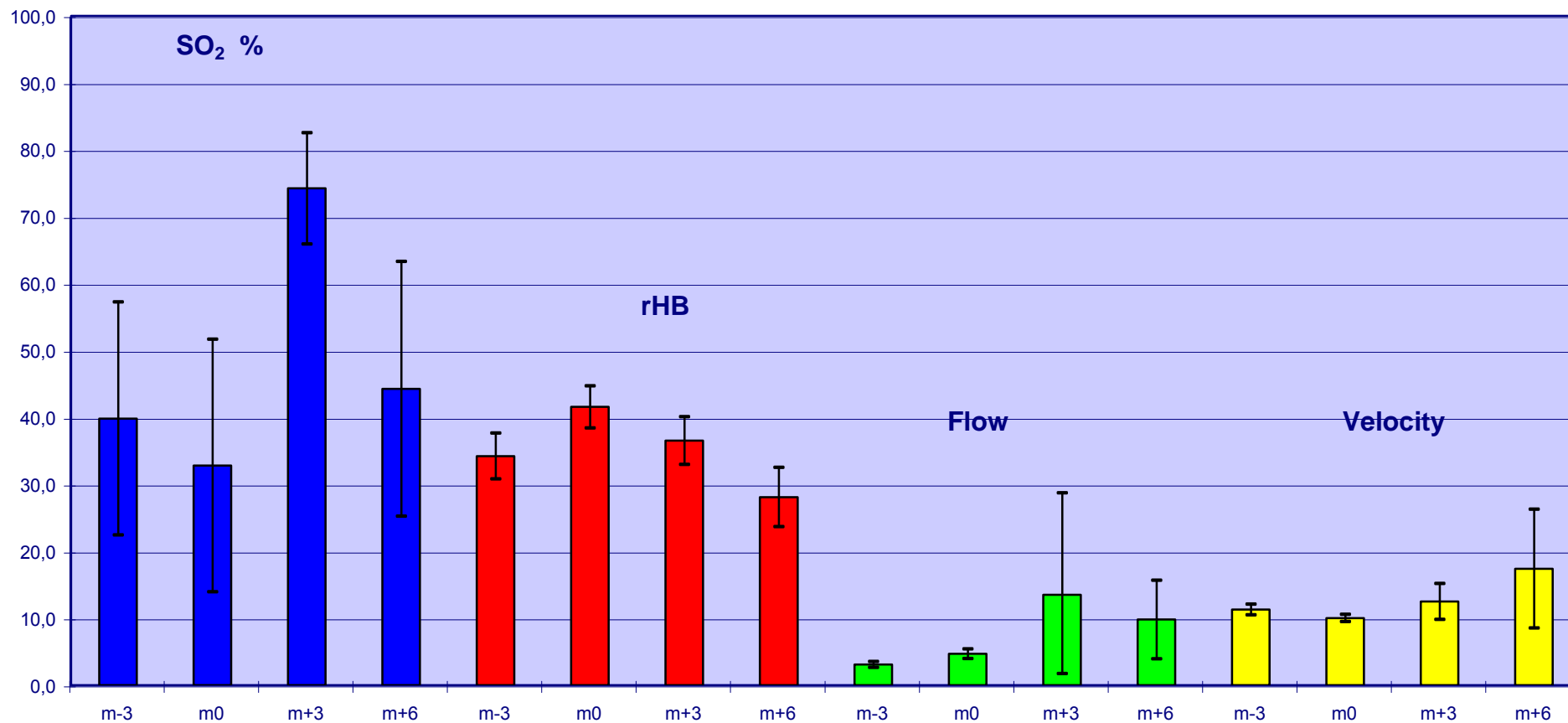
**Efficacy test
medilab assignment 19/2/04
Microvascular blood flow right breast**



**Efficacy test
medilab assignment 19/2/04
Microvascular blood flow left breast**

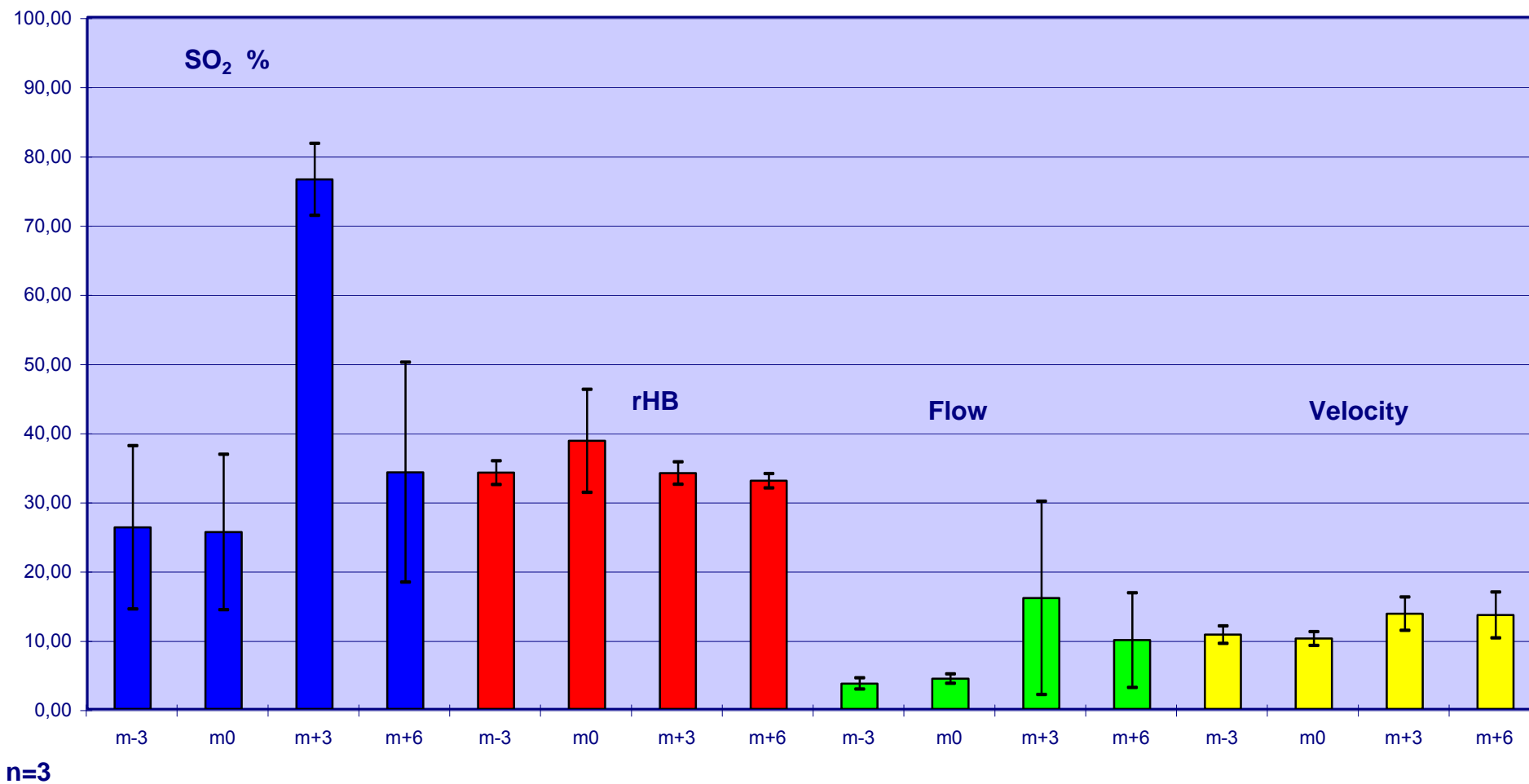


**Efficacy test
medilab assignment 19/2/04
Microvascular blood flow right thigh**



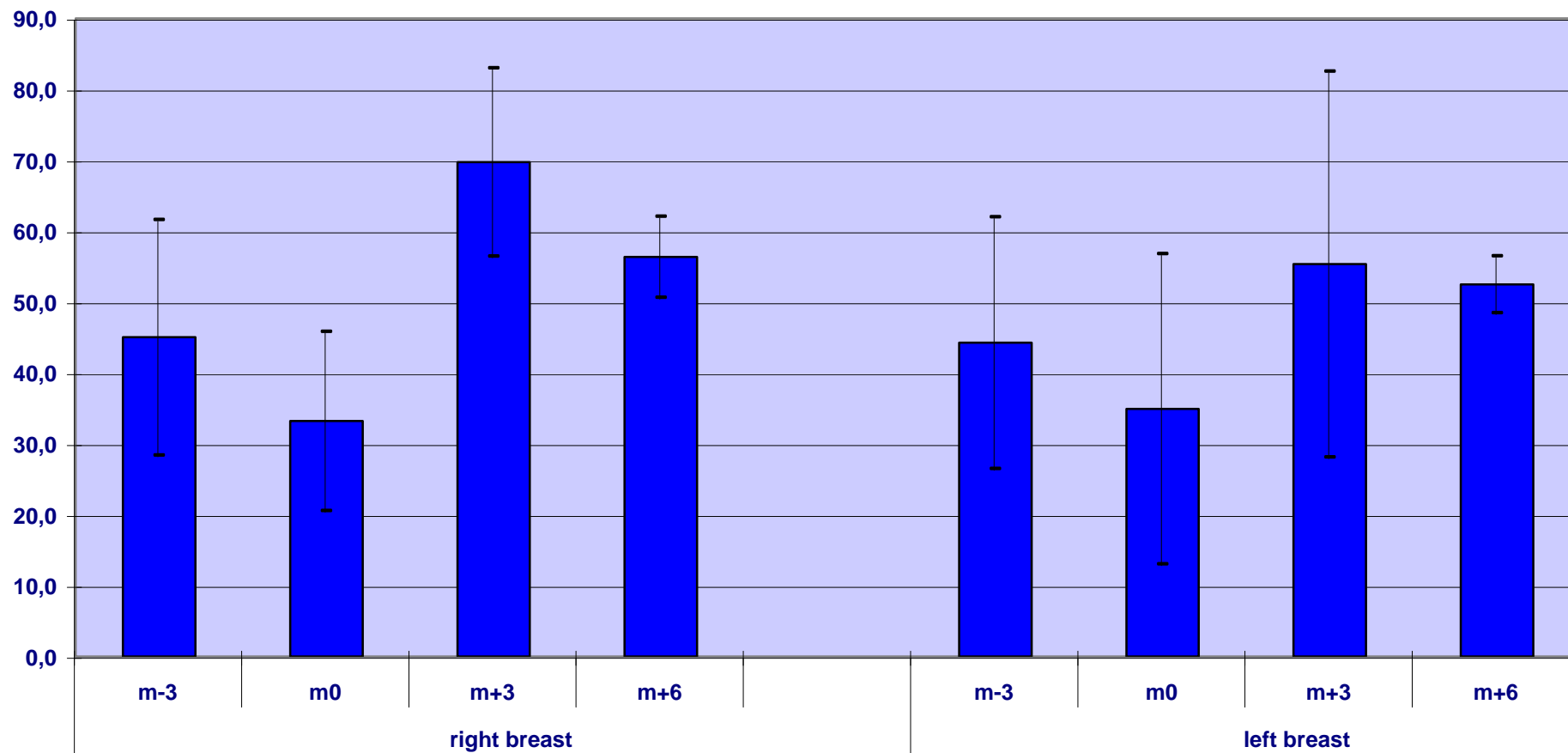
n=3

**Efficacy test
medilab assignment 19/2/04
Microvascular blood flow left thigh**

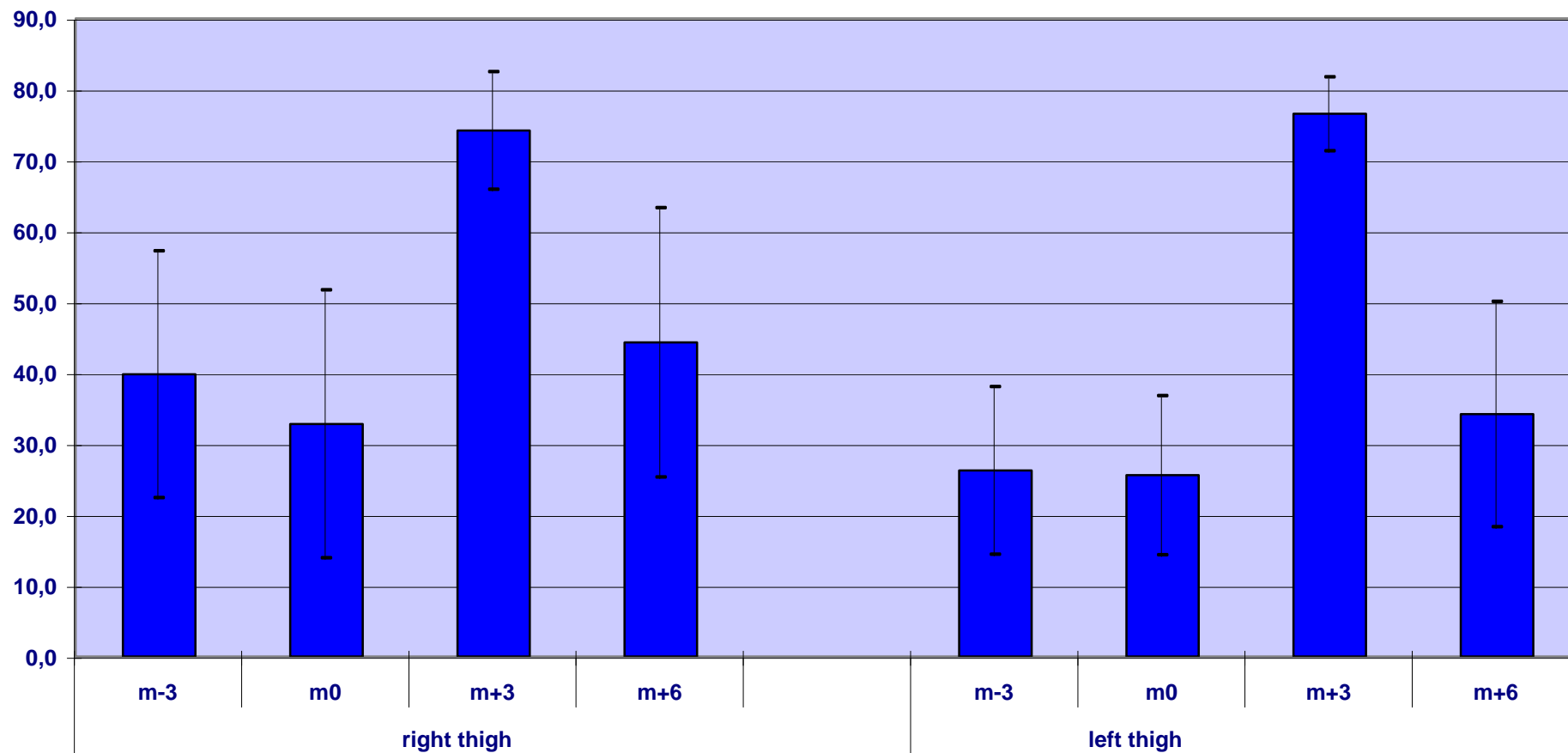


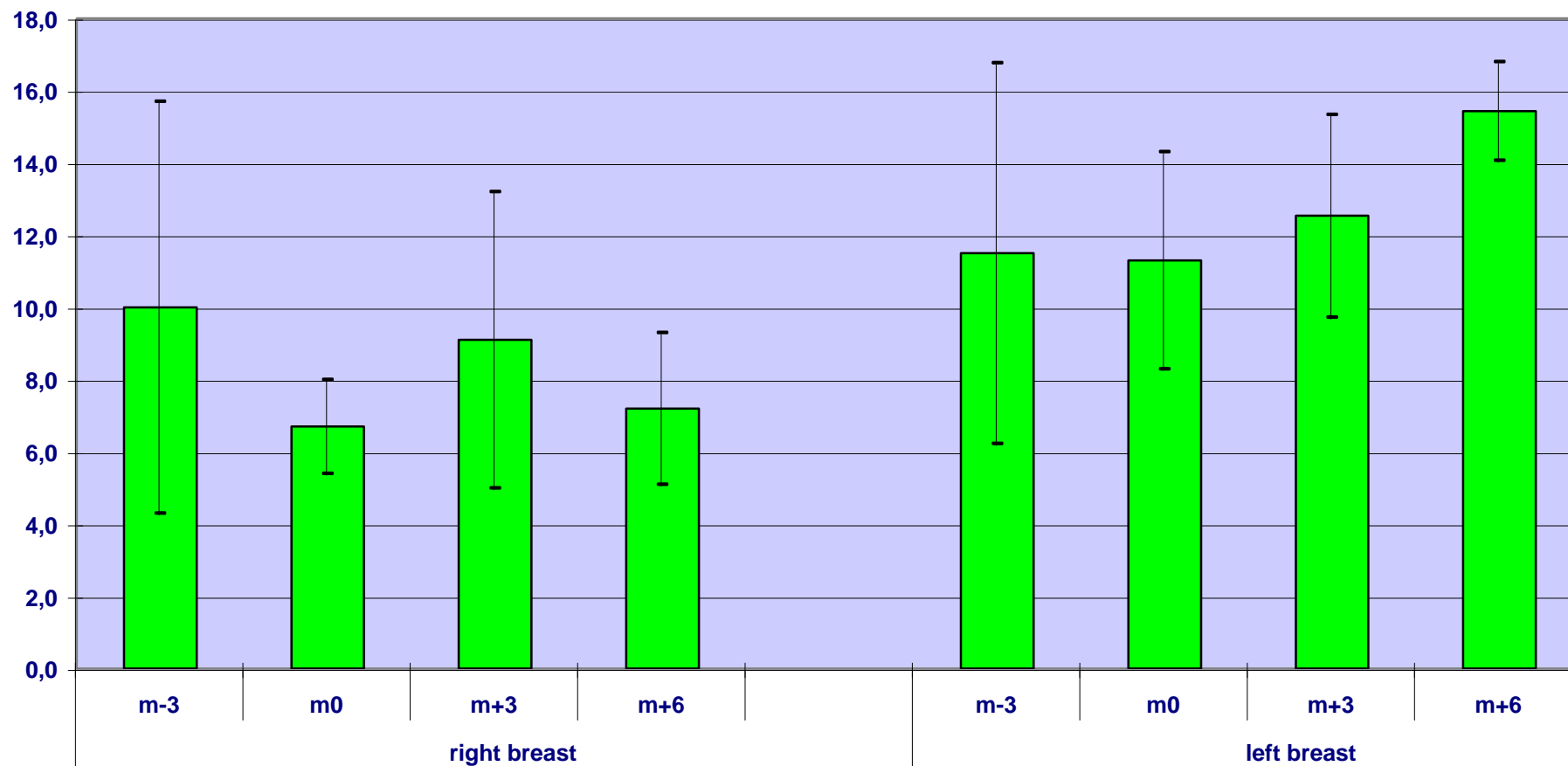
SO₂

Efficacy test
medilab assignment 19/2/04
Microvascular blood flow



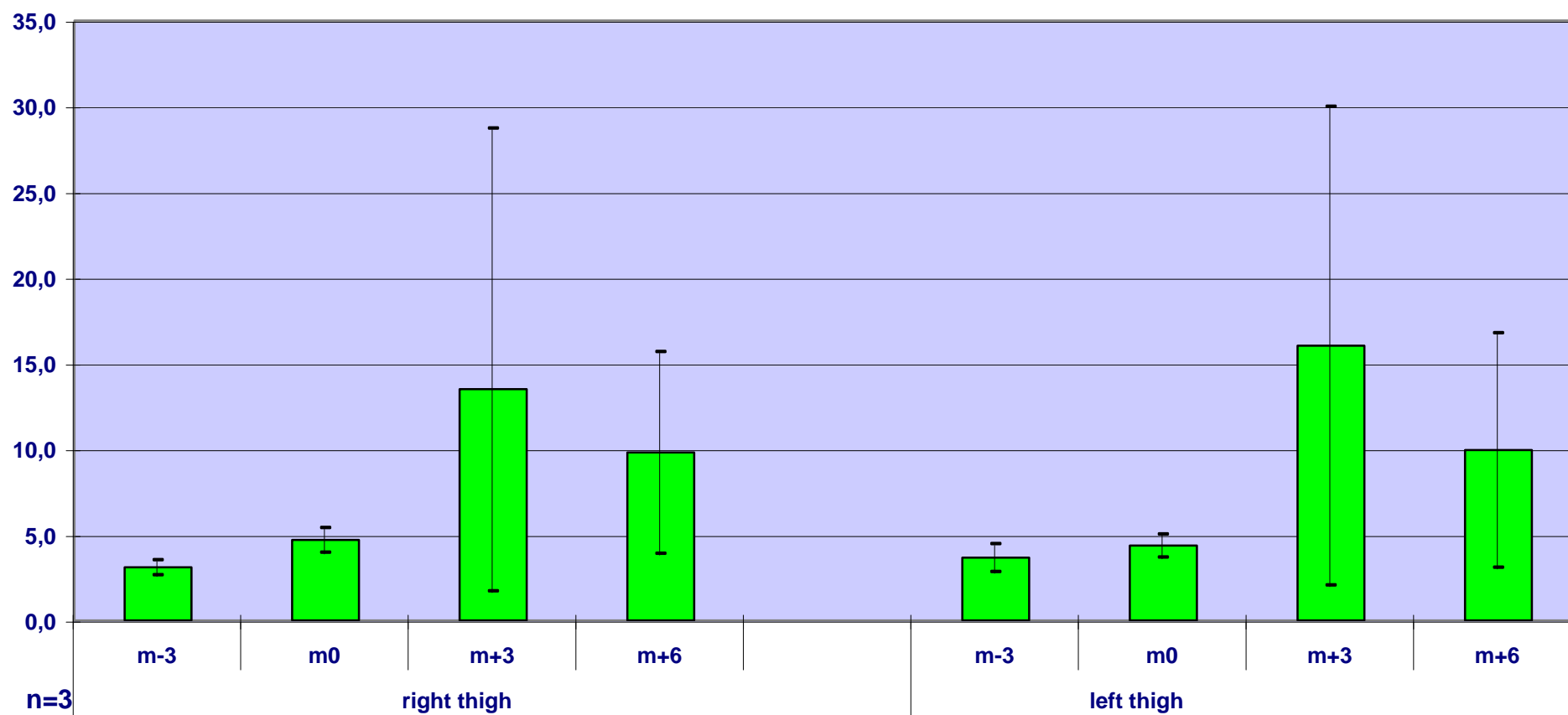
n=3

SO₂**Efficacy test
medilab assignment 19/2/04
Microvascular blood flow****n=3**

Flow**Efficacy test
medilab assignment 19/2/04
Microvascular blood flow**

n=3

Flow

Efficacy test
medilab assignment 19/2/04
Microvascular blood flow

Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

Elasticity (Cutometer) R6 viscoelastic properties right breast

Test Person	m -3	m 0	m +3	m +6
1		0,167	0,148	0,142
2		0,160	0,148	0,154
3		0,217	0,163	0,211
4		0,182	0,130	0,163
5		0,181	0,172	0,167
6		0,162	0,147	0,156
7	0,148	0,148	0,166	0,131
8		0,150	0,150	0,155
9	0,149	0,148	0,142	0,138
10		0,149	0,134	0,12
11		0,145	0,120	0,118
12	0,150	0,156	0,148	0,142
AV	0,149	0,164	0,147	0,150
deviation	0,00	0,02	0,01	0,02
median	0,149	0,158	0,148	0,148

Elasticity (Cutometer) R6 viscoelastic properties left breast

Test person	m -3	m 0	m +3	m +6
1		0,156	0,149	0,140
2		0,164	0,152	0,161
3		0,219	0,155	0,168
4		0,123	0,118	0,115
5		0,172	0,159	0,147
6		0,161	0,138	0,159
7	0,161	0,170	0,150	0,166
8		0,142	0,150	0,158
9	0,138	0,141	0,133	0,136
10		0,161	0,154	0,087
11		0,131	0,124	0,114
12	0,132	0,128	0,130	0,13
AV	0,144	0,156	0,143	0,140
deviation	0,02	0,03	0,01	0,02
median	0,138	0,159	0,150	0,144

Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

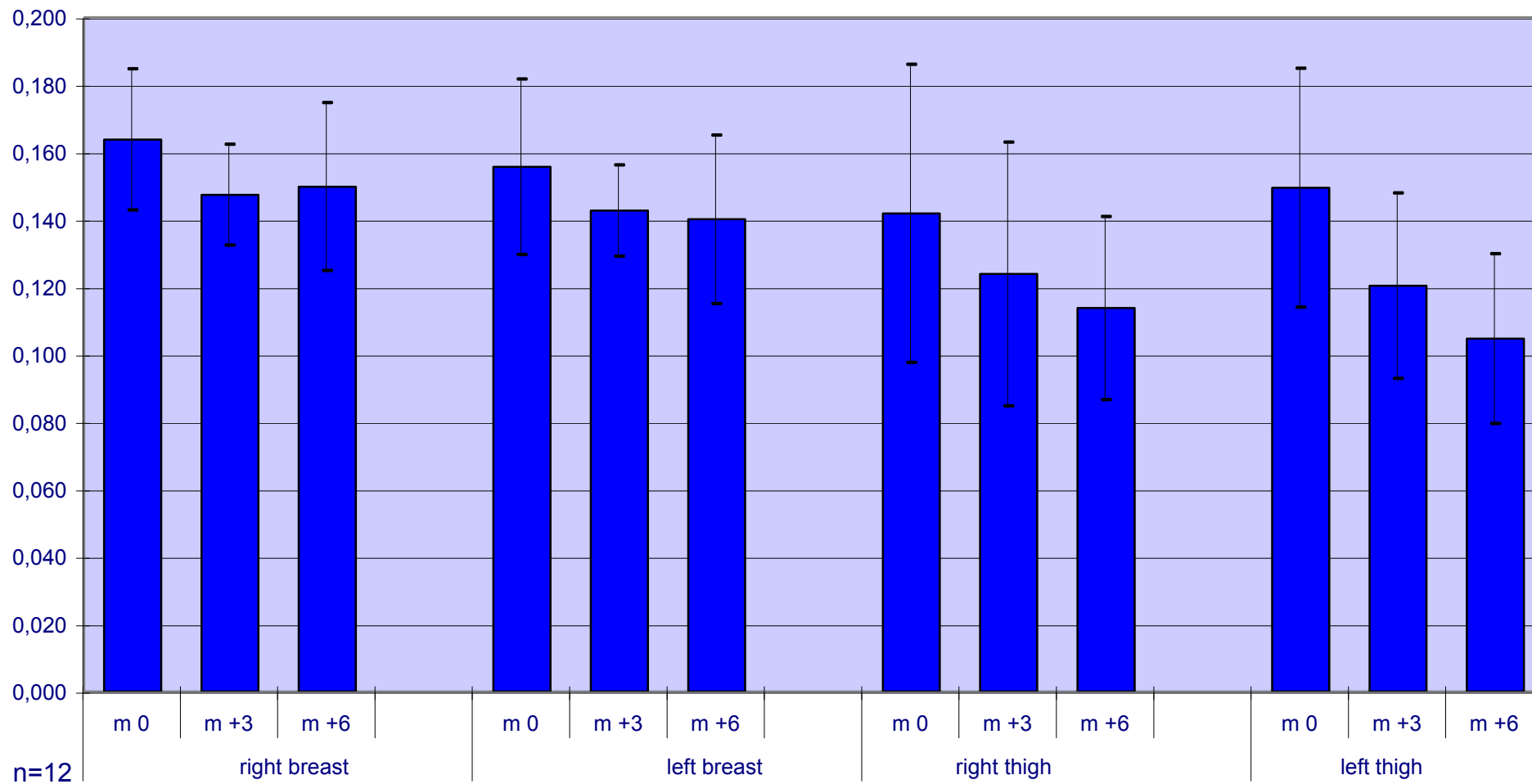
Elasticity (Cutometer) R6 viscoelastic properties right thigh

Test person	m -3	m 0	m +3	m +6
1		0,142	0,140	0,131
2		0,172	0,160	0,152
3		0,125	0,115	0,084
4		0,101	0,075	0,081
5		0,152	0,063	0,097
6		0,186	0,114	0,135
7	0,225	0,192	0,137	0,125
8		0,217	0,180	0,162
9	0,089	0,097	0,102	0,083
10		0,068	0,190	0,101
11		0,111	0,097	0,105
12	0,122	0,139	0,113	0,109
AV	0,145	0,142	0,124	0,114
deviation	0,07	0,04	0,04	0,03
median	0,122	0,141	0,115	0,107

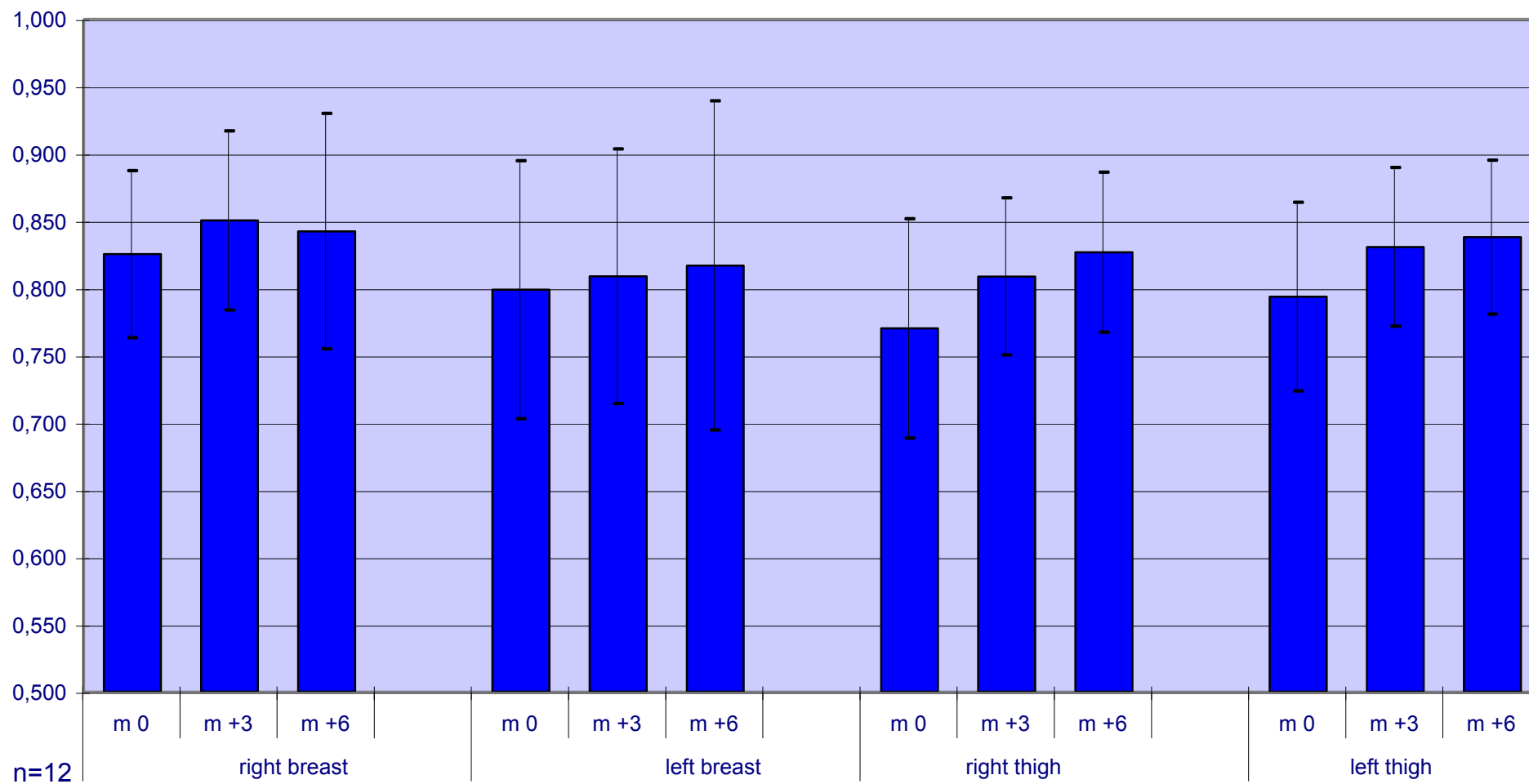
Elasticity (Cutometer) R6 viscoelastic properties left thigh

Test person	m -3	m 0	m +3	m +6
1		0,155	0,150	0,120
2		0,167	0,152	0,125
3		0,120	0,101	0,083
4		0,136	0,110	0,053
5		0,164	0,080	0,101
6		0,211	0,115	0,147
7	0,215	0,187	0,137	0,133
8		0,192	0,122	0,101
9	0,090	0,098	0,104	0,081
10		0,119	0,174	0,107
11		0,129	0,098	0,102
12	0,116	0,115	0,101	0,103
AV	0,140	0,149	0,120	0,105
deviation	0,07	0,04	0,03	0,03
median	0,116	0,146	0,113	0,103

Efficacy test medilab 19/2/04
Elasticity (Cutometer) R6 viscoelastic properties



Efficacy test medilab 19/2/04
Elasticity (Cutometer) R7 - biol. elasticity



Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

Elasticity (Cutometer) R7 biol. elasticity right breast

Test person	m -3	m 0	m +3	m +6
1		0,779	0,889	0,787
2		0,880	0,892	0,885
3		0,798	0,806	0,798
4		0,867	0,918	0,934
5		0,771	0,855	0,871
6		0,813	0,820	0,825
7	0,807	0,812	0,861	0,857
8		0,682	0,668	0,599
9	0,890	0,898	0,895	0,903
10		0,875	0,834	0,882
11		0,875	0,870	0,878
12	0,851	0,852	0,894	0,886
AV	0,849	0,825	0,850	0,842
deviation	0,04	0,06	0,07	0,09
median	0,851	0,833	0,866	0,875

Elasticity (Cutometer) R7 biol. elasticity left breast

Test person	m -3	m 0	m +3	m +6
1		0,728	0,807	0,748
2		0,876	0,886	0,881
3		0,730	0,738	0,741
4		0,891	0,895	0,939
5		0,795	0,803	0,858
6		0,768	0,794	0,805
7	0,842	0,849	0,855	0,867
8		0,550	0,545	0,475
9	0,836	0,821	0,812	0,855
10		0,866	0,849	0,905
11		0,847	0,836	0,851
12	0,863	0,863	0,884	0,875
AV	0,847	0,799	0,809	0,817
deviation	0,01	0,10	0,09	0,12
median	0,842	0,834	0,824	0,857

Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

Elasticity (Cutometer) right thigh

R7 biol. elasticity

Test person	m -3	m 0	m +3	m +6
1		0,628	0,678	0,673
2		0,770	0,861	0,858
3		0,835	0,829	0,847
4		0,842	0,875	0,875
5		0,760	0,783	0,806
6		0,621	0,778	0,797
7	0,806	0,812	0,884	0,885
8		0,689	0,798	0,803
9	0,821	0,820	0,818	0,863
10		0,852	0,754	0,878
11		0,782	0,790	0,785
12	0,820	0,828	0,854	0,849
AV	0,816	0,770	0,809	0,827
deviation	0,01	0,08	0,06	0,06
median	0,820	0,797	0,808	0,848

Elasticity (Cutometer) left thigh

R7 biol. elasticity

Test person	m -3	m 0	m +3	m +6
1		0,683	0,733	0,698
2		0,779	0,878	0,838
3		0,877	0,883	0,885
4		0,783	0,869	0,858
5		0,706	0,789	0,816
6		0,784	0,795	0,804
7	0,850	0,852	0,884	0,89
8		0,696	0,747	0,799
9	0,786	0,792	0,795	0,823
10		0,832	0,819	0,875
11		0,849	0,858	0,850
12	0,893	0,890	0,916	0,917
AV	0,843	0,794	0,831	0,838
deviation	0,05	0,07	0,06	0,06
median	0,850	0,788	0,839	0,844

Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

Elasticity (Cutometer) R6 viscoelast. properties

right breast

Test person	m -3	m 0	m +3	m +6
7	0,148	0,148	0,166	0,131
9	0,149	0,148	0,142	0,138
12	0,150	0,156	0,148	0,142
AV	0,149	0,151	0,152	0,137
deviation	0,00	0,00	0,01	0,01
median	0,149	0,148	0,148	0,138

Elasticity (Cutometer) R6 viscoelast. properties

left breast

Test person	m -3	m 0	m +3	m +6
7	0,161	0,170	0,150	0,166
9	0,138	0,141	0,133	0,136
12	0,132	0,128	0,130	0,13
AV	0,144	0,146	0,138	0,144
deviation	0,02	0,02	0,01	0,02
median	0,138	0,141	0,133	0,136

Elasticity (Cutometer) R6 viscoelast. properties

right thigh

Test person	m -3	m 0	m +3	m +6
7	0,225	0,192	0,137	0,125
9	0,089	0,097	0,102	0,083
12	0,122	0,139	0,113	0,109
AV	0,145	0,143	0,117	0,106
deviation	0,07	0,05	0,02	0,02
median	0,122	0,139	0,113	0,109

Elasticity (Cutometer) R6 viscoelast. properties

left thigh

Test person	m -3	m 0	m +3	m +6
7	0,215	0,187	0,137	0,133
9	0,090	0,098	0,104	0,081
12	0,116	0,115	0,101	0,103
AV	0,140	0,133	0,114	0,106
STABW	0,07	0,05	0,02	0,03
Median	0,116	0,115	0,104	0,103

Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

Elasticity (Cutometer) R7 biol. elasticity right breast

Test person	m -3	m 0	m +3	m +6
7	0,807	0,812	0,861	0,857
9	0,890	0,898	0,895	0,903
12	0,851	0,852	0,894	0,886
AV	0,849	0,854	0,883	0,882
deviation	0,04	0,04	0,02	0,02
median	0,851	0,852	0,894	0,886

Elasticity (Cutometer) R7 - biol. elasticity left breast

Test person	m -3	m 0	m +3	m +6
7	0,842	0,849	0,855	0,867
9	0,836	0,821	0,812	0,855
12	0,863	0,863	0,884	0,875
AV	0,847	0,844	0,850	0,866
deviation	0,01	0,02	0,04	0,01
median	0,842	0,849	0,855	0,867

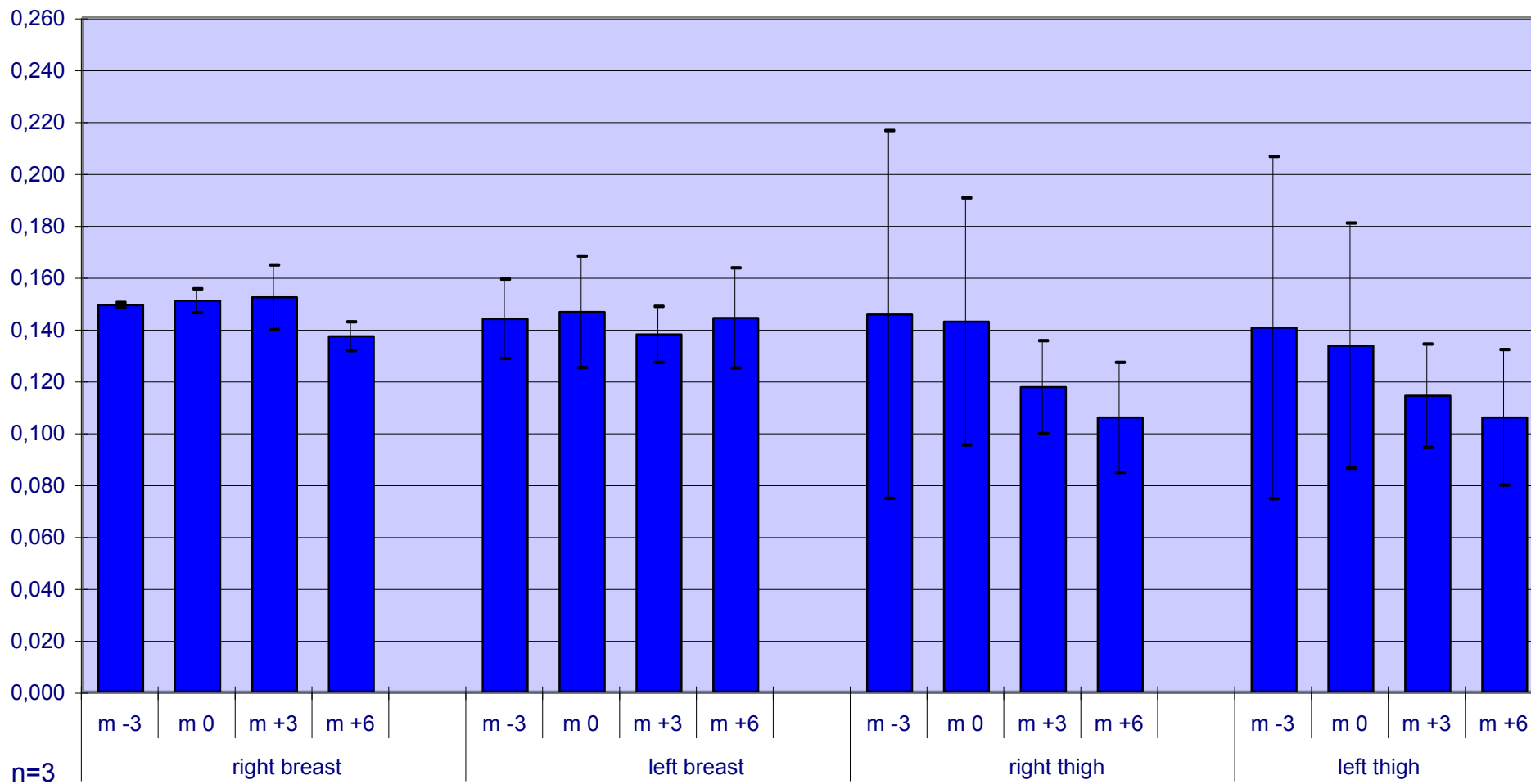
Elasticity (Cutometer) R7 - biol. elasticity right thigh

Test person	m -3	m 0	m +3	m +6
7	0,806	0,812	0,884	0,885
9	0,821	0,820	0,818	0,863
12	0,820	0,828	0,854	0,849
AV	0,816	0,820	0,852	0,866
deviation	0,01	0,01	0,03	0,02
median	0,820	0,820	0,854	0,863

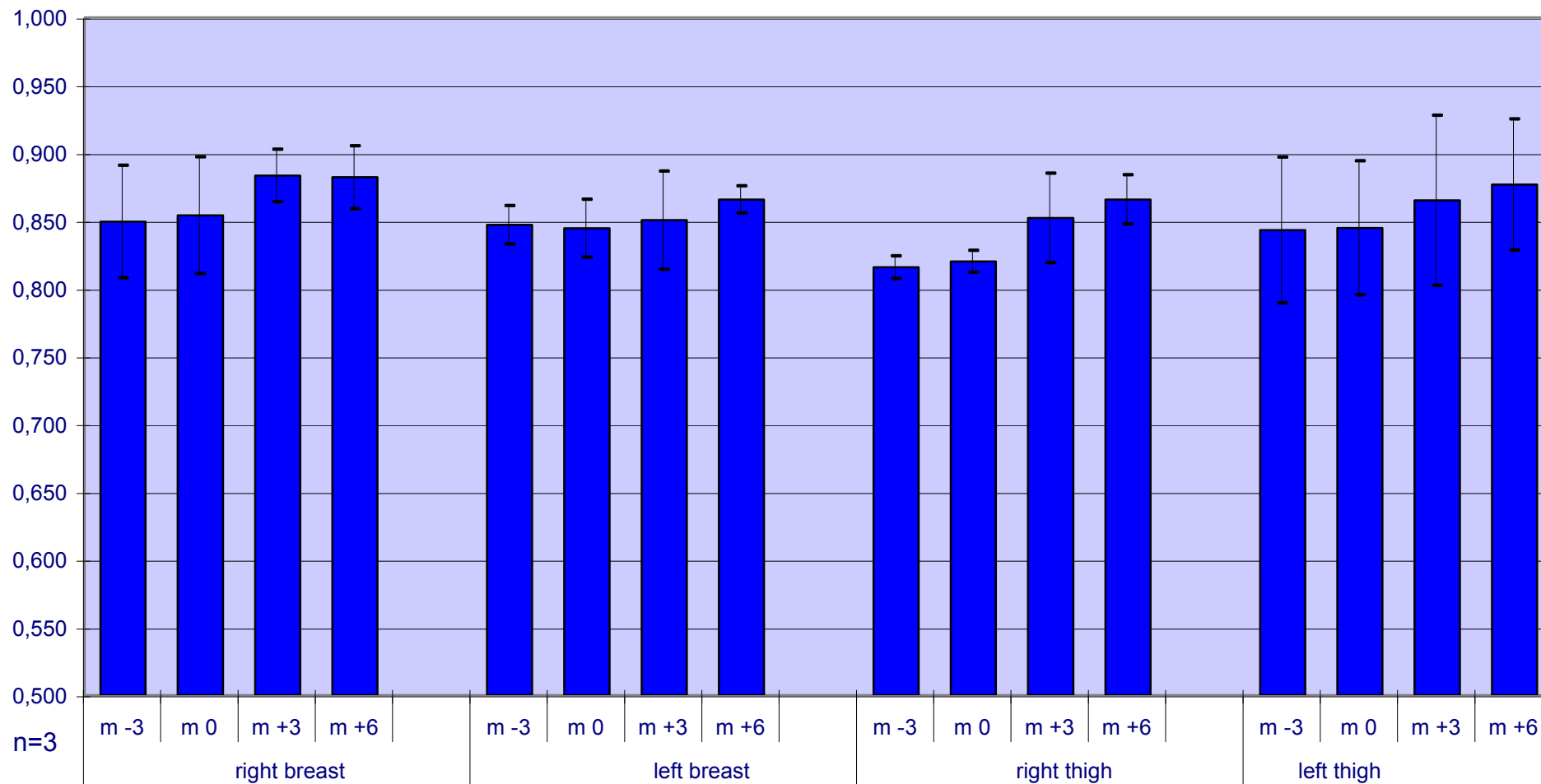
Elasticity (Cutometer) R7 - biol. elasticity left thigh

Test person	m -3	m 0	m +3	m +6
7	0,850	0,852	0,884	0,89
9	0,786	0,792	0,795	0,823
12	0,893	0,890	0,916	0,917
AV	0,843	0,845	0,865	0,877
deviation	0,05	0,05	0,06	0,05
median	0,850	0,852	0,884	0,890

Efficacy test medilab 19/2/04
Elasticity (Cutometer) R6 - viscoelast. properties



Efficacy test medilab 19/2/04
Elasticity (Cutometer) R7 - biol. elasticity



Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

Ultrasound B-Scan skin density right breast

Test pers.	m -3	m 0	m +3	m +6
1		7,093	7,314	7,934
2		9,370	9,234	8,855
3		6,243	6,603	6,294
4		7,631	6,537	7,771
5		9,445	10,036	10,336
6		10,667	11,594	10,757
7	8,872	8,867	9,604	10,564
8		11,871	12,662	11,268
9	5,723	5,825	6,778	7,007
10		10,098	11,552	9,753
11		5,850	6,736	8,185
12	8,828	8,851	9,515	10,438
AV	7,808	8,484	9,014	9,097
deviation	1,81	1,97	2,20	1,64
median	8,83	8,86	9,37	9,30

Ultrasound B-Scan skin density left breast

Test pers.	m -3	m 0	m +3	m +6
1		7,924	10,593	8,976
2		9,539	9,691	9,058
3		4,497	4,039	4,509
4		7,840	6,828	7,932
5		7,692	9,551	9,390
6		9,035	10,041	10,016
7	7,527	7,523	10,242	11,356
8		11,265	12,120	14,239
9	5,317	5,708	6,436	7,412
10		8,700	10,408	9,311
11		6,515	6,661	8,155
12	7,700	7,921	9,291	10,192
AV	6,848	7,847	8,825	9,212
deviation	1,33	1,77	2,31	2,33
median	7,53	7,88	9,62	9,18

Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

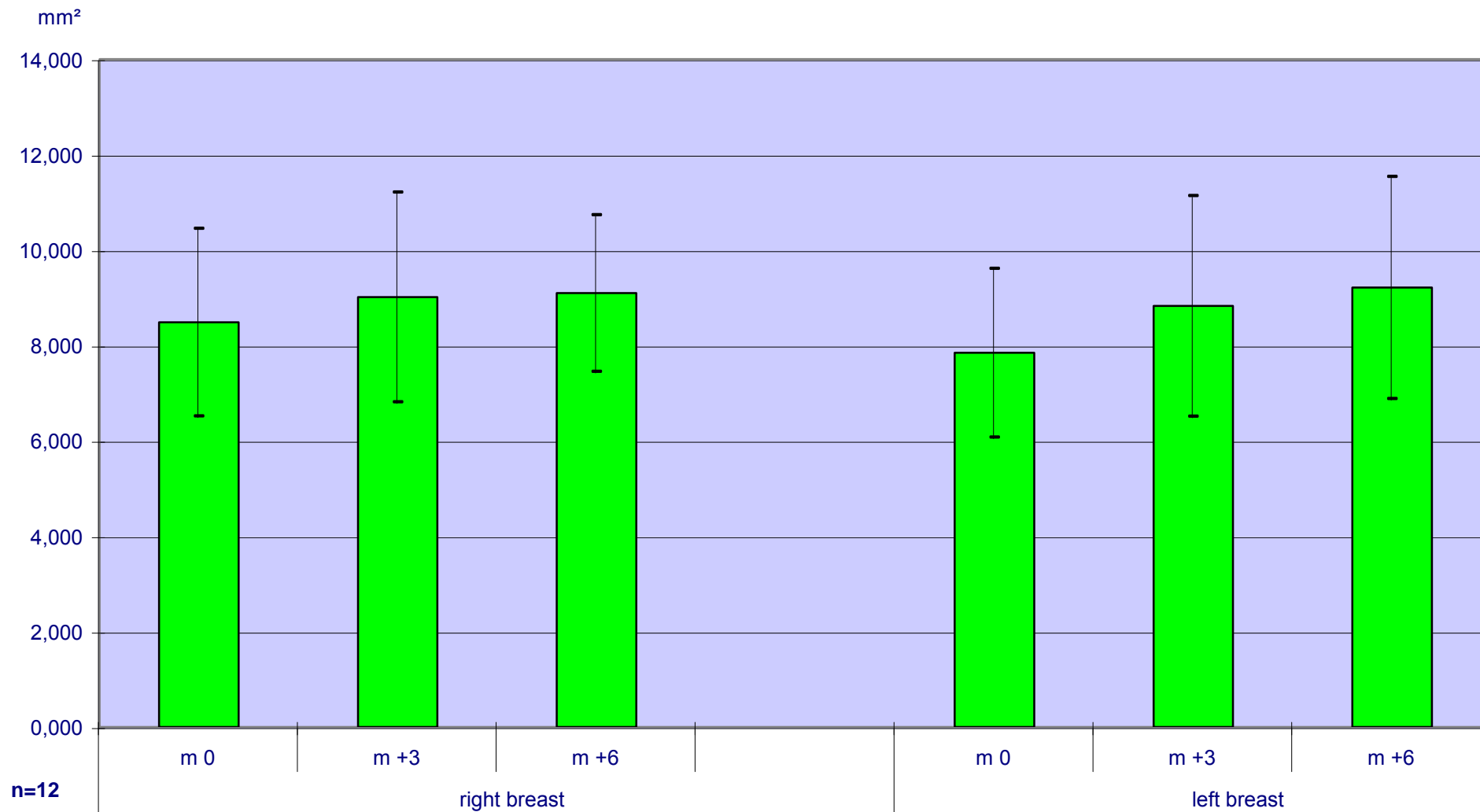
Ultrasound B-Scan skin density right breast

Test pers.	m -3	m 0	m +3	m +6
7	8,872	8,867	9,604	10,564
9	5,723	5,825	6,778	7,007
12	8,828	8,851	9,515	10,438
AV	7,808	7,848	8,632	9,336
deviation	1,81	1,75	1,61	2,02
median	8,83	8,85	9,52	10,44

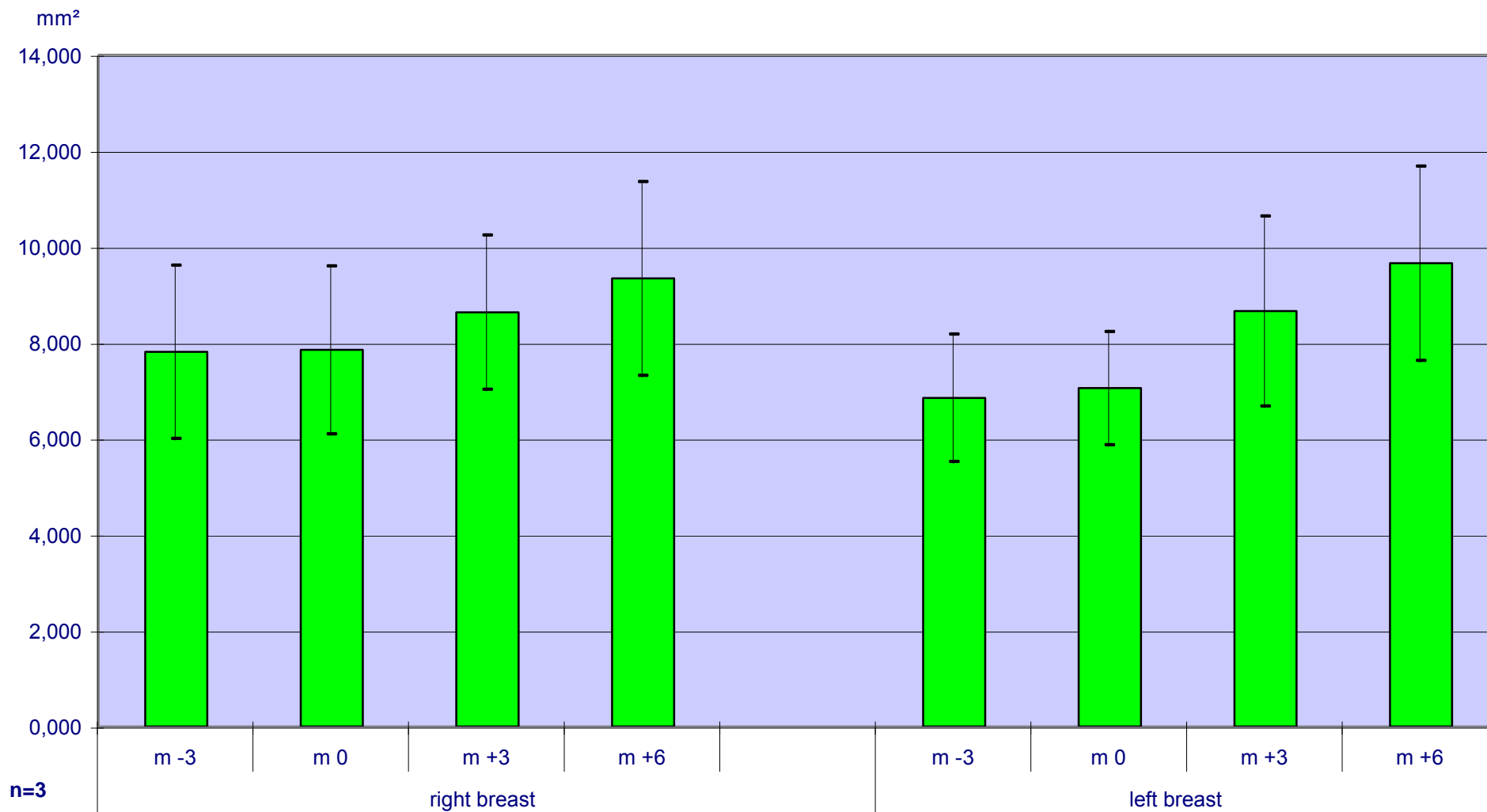
Ultrasound B-Scan skin density left breast

Test pers.	m -3	m 0	m +3	m +6
7	7,527	7,523	10,242	11,356
9	5,317	5,708	6,436	7,412
12	7,700	7,921	9,291	10,192
AV	6,848	7,051	8,656	9,653
deviation	1,33	1,18	1,98	2,03
median	7,53	7,52	9,29	10,19

Efficacy test medilab 19/2/04 Ultrasound B-Scan - skin density



**Efficacy test medilab 19/2/04
Ultrasound B-Scan - skin density**



Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

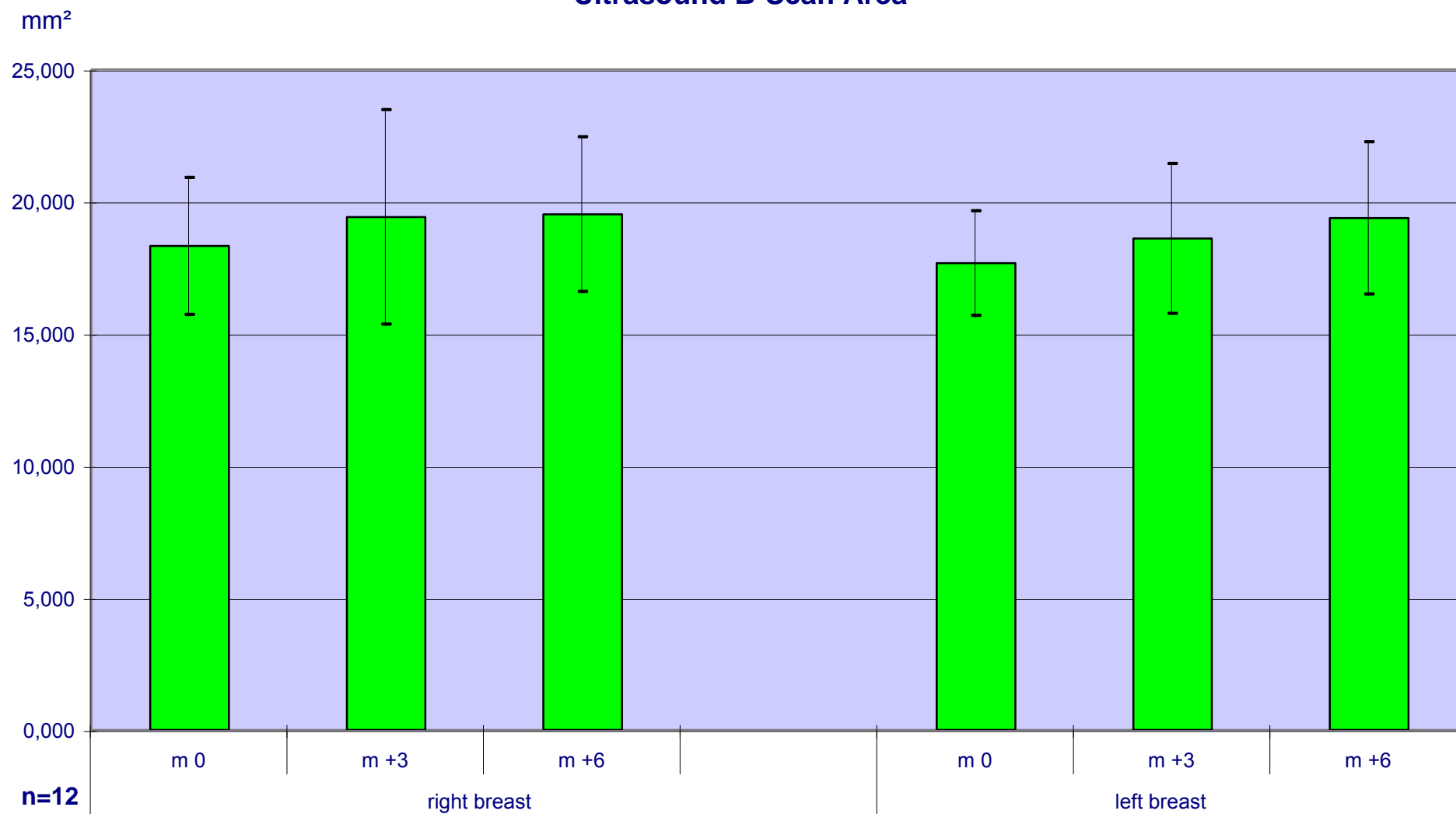
Ultrasound B-Scan Area right breast

Test person	m -3	m 0	m +3	m +6
1		19,220	20,354	17,563
2		19,320	19,731	17,834
3		17,000	17,407	16,569
4		14,300	13,695	19,127
5		19,407	20,682	21,533
6		20,44	17,377	21,171
7	18,277	18,032	19,501	21,79
8		23,464	29,691	25,431
9	13,808	13,721	14,411	14,542
10		18,683	21,844	18,552
11		17,466	18,405	18,403
12	18,558	18,755	19,863	21,685
AV	16,881	18,317	19,413	19,517
deviation	2,67	2,60	4,06	2,92
median	18,28	18,72	19,62	18,84

Ultrasound B-Scan Area left breast

Test person	m -3	m 0	m +3	m +6
1		18,754	20,071	18,817
2		18,692	19,437	17,759
3		18,836	18,481	17,343
4		15,000	13,244	19,209
5		15,677	18,359	20,148
6		18,386	18,475	18,994
7	18,450	18,757	20,913	23,053
8		19,843	22,915	25,930
9	14,306	13,532	13,990	15,014
10		19,689	20,980	18,860
11		16,837	16,459	16,858
12	18,660	17,972	19,848	20,512
AV	17,139	17,665	18,598	19,375
deviation	2,46	1,98	2,84	2,88
median	18,45	18,54	18,96	18,93

Efficacy test medilab 19/2/04 Ultrasound B-Scan Area



Efficacy test

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Assignment 19/2/04

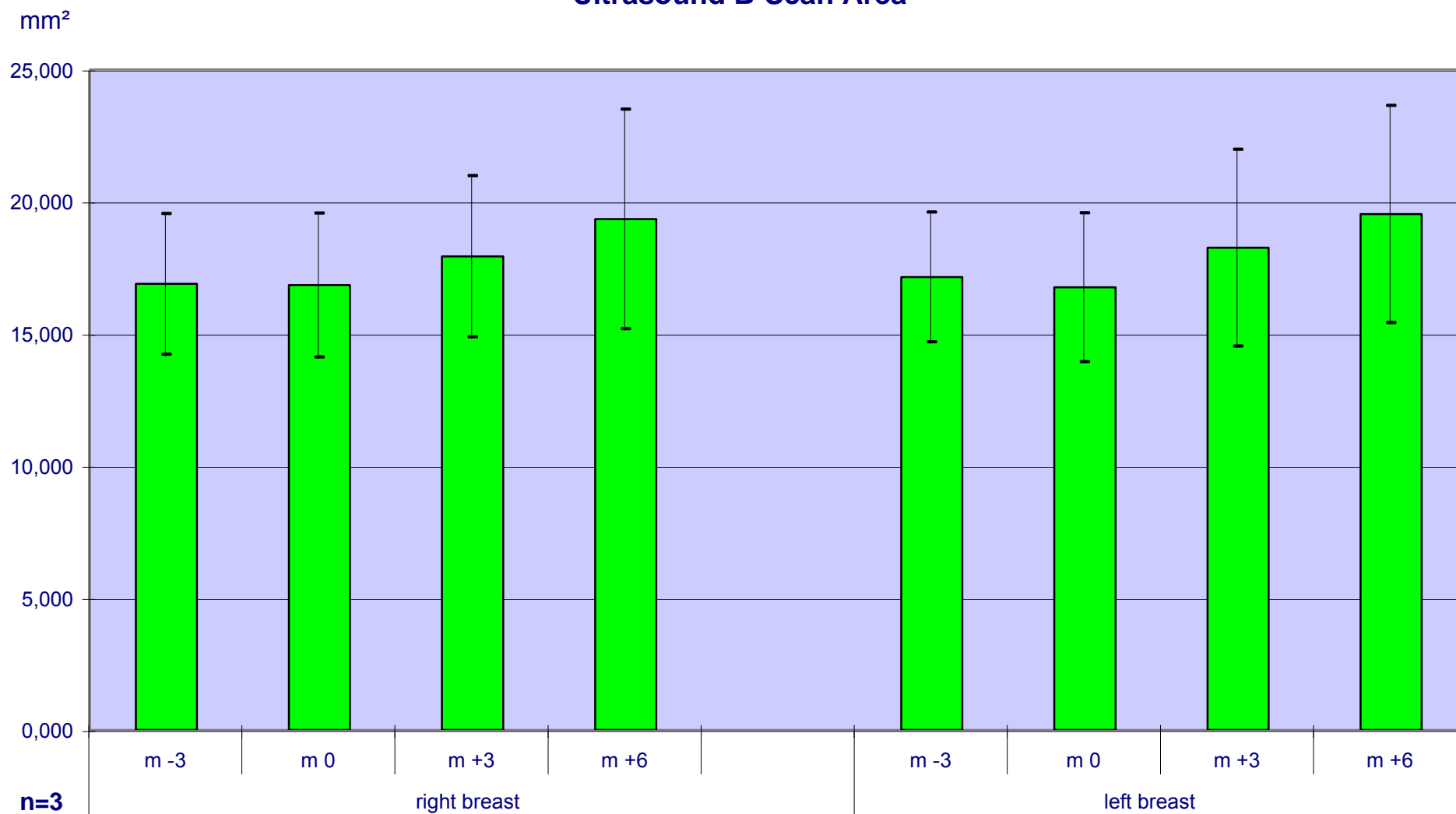
Ultrasound B-Scan Area right breast

Test pers.	m -3	m 0	m +3	m +6
7	18,277	18,032	19,501	21,79
9	13,808	13,721	14,411	14,542
12	18,558	18,755	19,863	21,685
AV	16,881	16,836	17,925	19,339
deviation	2,67	2,72	3,05	4,15
median	18,28	18,03	19,50	21,69

Ultrasound B-Scan Area left breast

Test pers.	m -3	m 0	m +3	m +6
7	18,450	18,757	20,913	23,053
9	14,306	13,532	13,990	15,014
12	18,660	17,972	19,848	20,512
AV	17,139	16,754	18,250	19,526
deviation	2,46	2,82	3,73	4,11
median	18,45	17,97	19,85	20,51

Efficacy test medilab 19/2/04
Ultrasound B-Scan Area



Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

Ultrasound B-Scan Perimeter right thigh

Test pers.	m -3	m 0	m +3	m +6
1		43,233	41,490	37,717
2		50,218	36,344	36,409
3		46,289	39,041	36,924
4		43,651	38,322	33,179
5		41,965	41,307	40,116
6		38,150	38,284	35,415
7	48,249	48,548	38,411	31,736
8		41,764	39,189	32,174
9	48,286	47,163	38,527	37,097
10		34,333	33,172	30,589
11		44,979	41,794	35,025
12	44,673	43,750	44,090	31,609
AV	47,069	43,670	39,164	34,833
deviation	2,08	4,39	2,82	2,96
median	48,25	43,70	38,78	35,22

Ultrasound B-Scan Perimeter left thigh

Test pers.	m -3	m 0	m +3	m +6
1		45,079	45,234	35,608
2		46,026	37,771	37,546
3		36,568	33,740	30,221
4		40,846	38,224	34,696
5		39,415	40,043	39,002
6		37,469	38,792	36,269
7	44,057	46,318	38,862	34,741
8		39,190	38,099	33,417
9	47,833	46,211	45,23	30,855
10		27,087	24,647	25,105
11		36,455	31,780	32,164
12	43,907	43,339	40,881	32,066
AV	45,266	40,334	37,775	33,474
deviation	2,22	5,64	5,67	3,74
median	44,06	40,13	38,51	34,06

Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

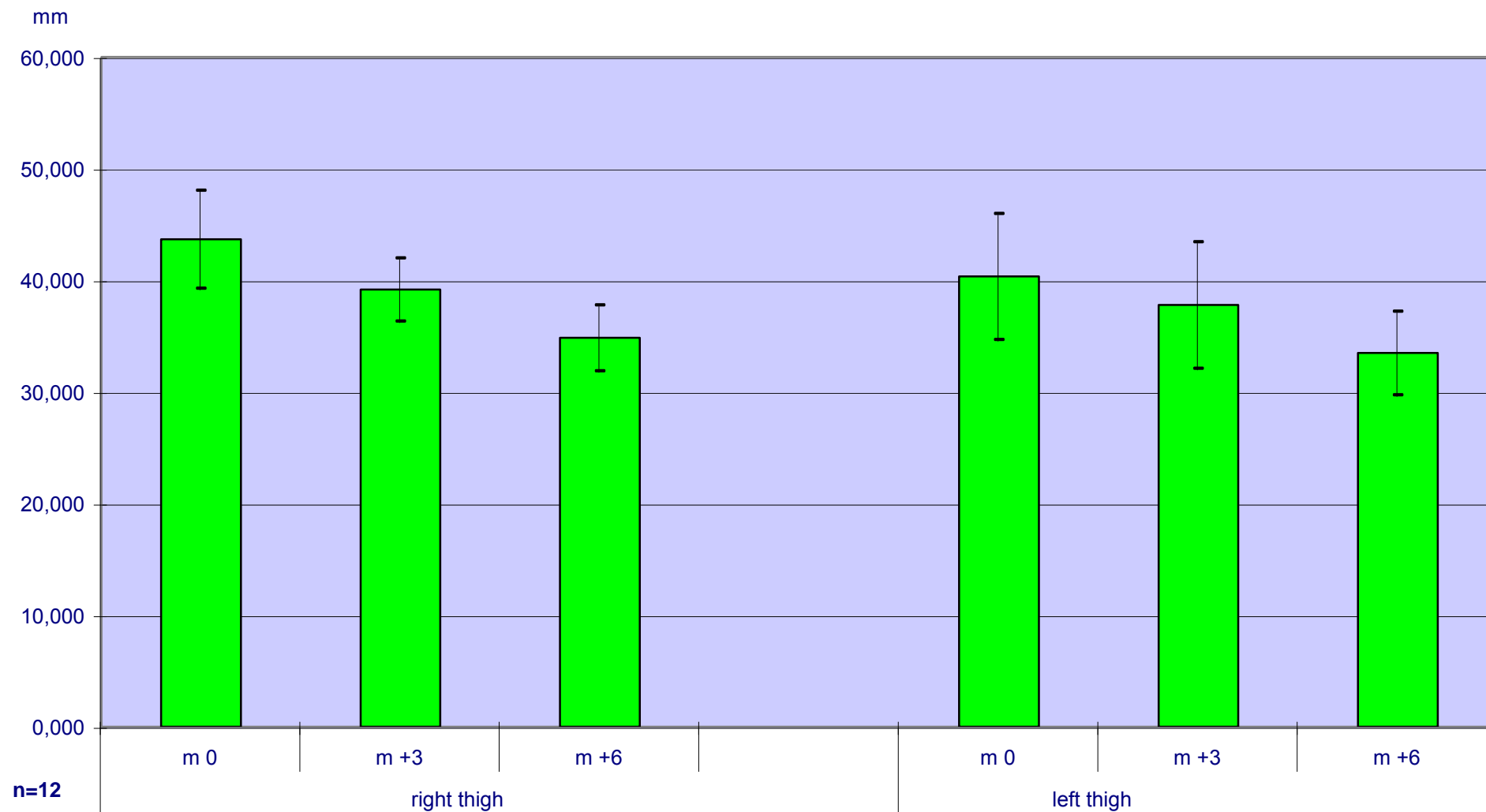
Ultrasound B-Scan Perimeter right thigh

Test pers.	m -3	m 0	m +3	m +6
7	48,249	48,548	38,411	31,736
9	48,286	47,163	38,527	37,097
12	44,673	43,750	44,090	31,609
AV	47,069	46,487	40,343	33,481
deviation	2,08	2,47	3,25	3,13
median	48,25	47,16	38,53	31,74

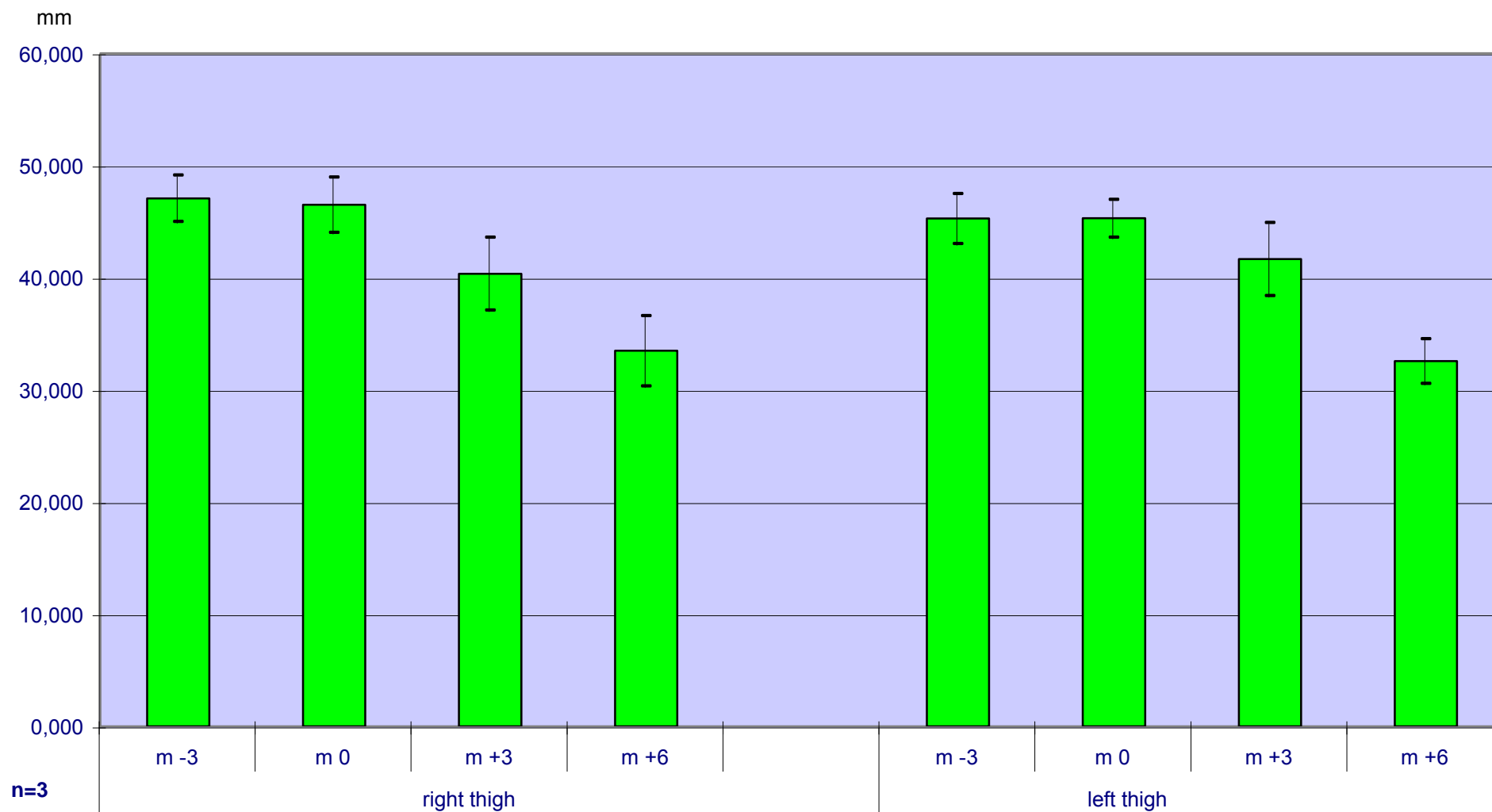
Ultrasound B-Scan Perimeter left thigh

Test pers.	m -3	m 0	m +3	m +6
7	44,057	46,318	38,862	34,741
9	47,833	46,211	45,23	30,855
12	43,907	43,339	40,881	32,066
AV	45,266	45,289	41,658	32,554
deviation	2,22	1,69	3,25	1,99
median	44,06	46,21	40,88	32,07

Efficacy test medilab 19/2/04 Ultrasound B-Scan - Perimeter



Efficacy test medilab 19/2/04 Ultrasound B-Scan - Perimeter



Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

Ultrasound B-Scan skin density right thigh

Test pers.	m -3	m 0	m +3	m +6
1		13,260	17,359	15,044
2		8,650	13,021	11,114
3		7,855	9,613	9,658
4		7,800	8,537	9,179
5		8,253	9,58	9,506
6		8,943	9,611	10,250
7	8,253	8,867	9,695	11,736
8		9,938	11,444	12,414
9	9,309	9,572	8,703	7,984
10		11,908	10,763	11,206
11		7,535	9,736	7,728
12	7,353	7,243	10,846	11,443
AV	8,305	9,152	10,742	10,605
deviation	0,98	1,81	2,42	2,02
median	8,25	8,76	9,72	10,68

Ultrasound B-Scan skin density left thigh

Test pers.	m -3	m 0	m +3	m +6
1		16,581	17,201	16,928
2		9,158	12,982	11,631
3		7,825	8,550	6,594
4		8,830	9,828	8,294
5		8,026	10,171	10,852
6		9,228	10,985	10,110
7	7,043	7,009	7,477	14,294
8		9,621	11,067	11,597
9	8,239	8,501	8,077	10,897
10		9,876	12,327	9,745
11		7,555	9,661	8,406
12	7,780	8,285	9,980	9,520
AV	7,687	9,208	10,692	10,739
deviation	0,60	2,47	2,61	2,76
median	7,78	8,67	10,08	10,48

Efficacy test

medilab GmbH & Co.

Assignment 19/2/04

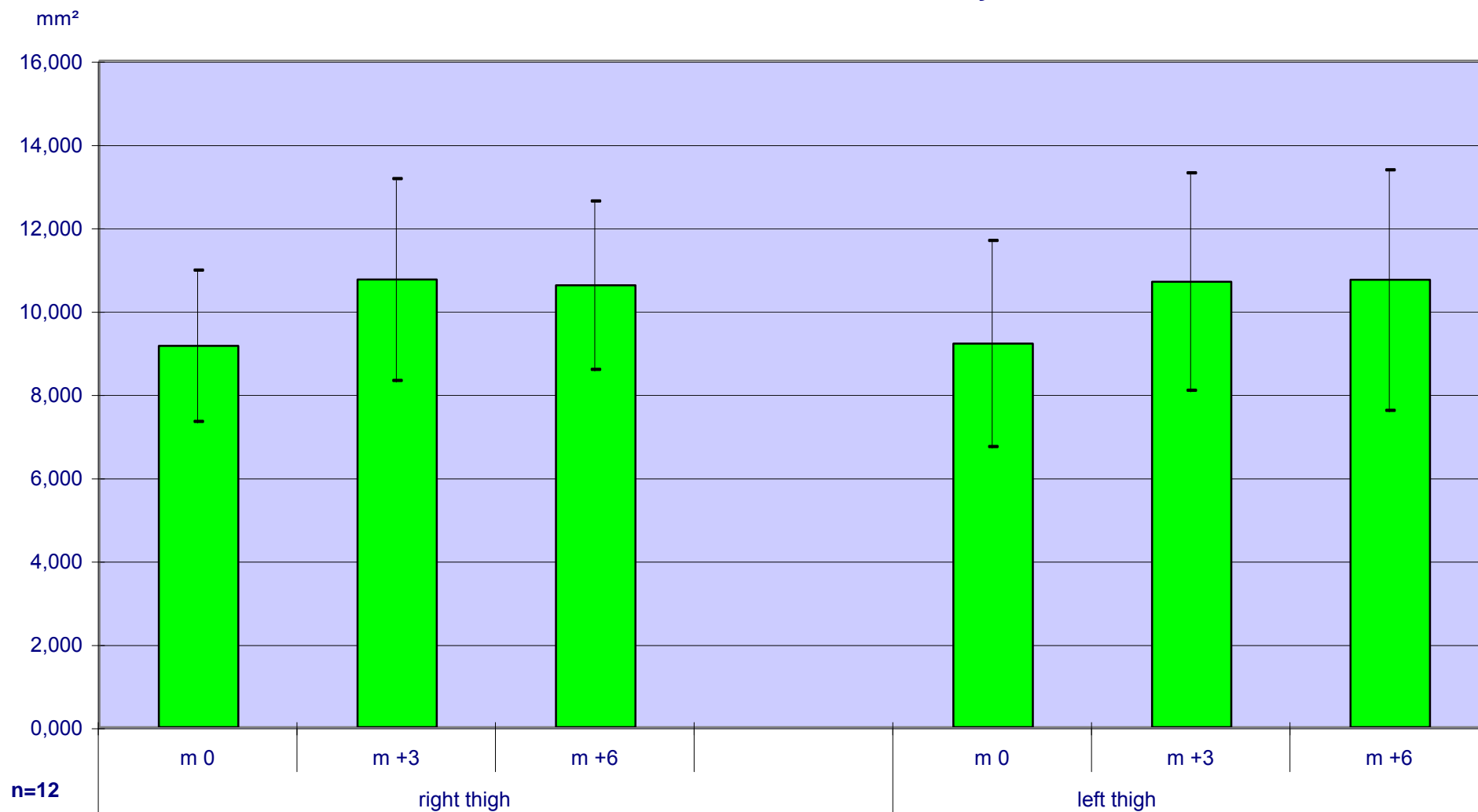
Ultrasound B-Scan skin density right thigh

Test pers.	m -3	m 0	m +3	m +6
7	8,253	8,867	9,695	11,736
9	9,309	9,572	8,703	7,984
12	7,353	7,243	10,846	11,443
AV	8,305	8,561	9,748	10,388
deviation	0,98	1,19	1,07	2,09
median	8,25	8,87	9,70	11,44

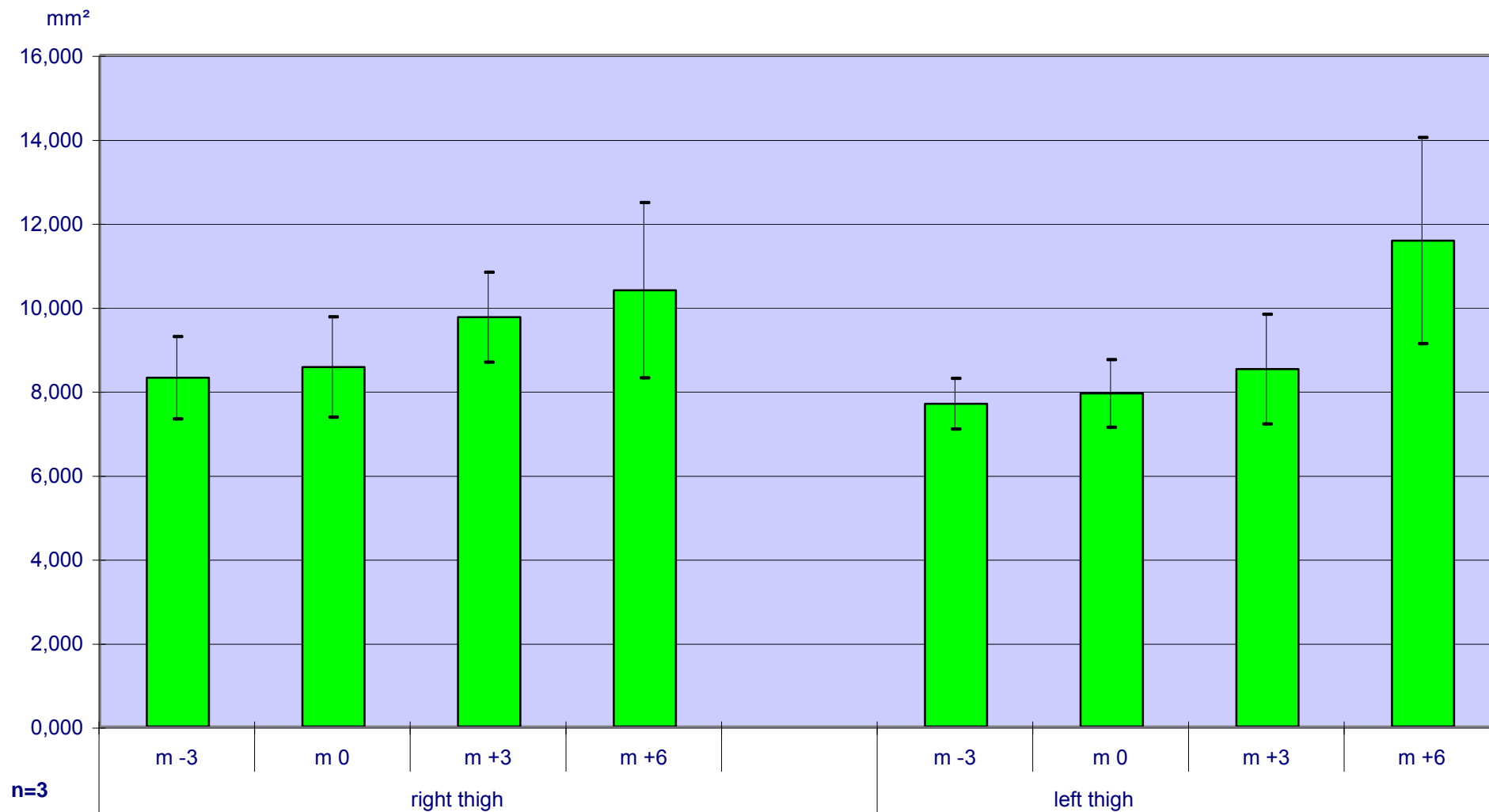
Ultrasound B-Scan skin density left thigh

Test pers.	m -3	m 0	m +3	m +6
7	7,043	7,009	7,477	14,294
9	8,239	8,501	8,077	10,897
12	7,780	8,285	9,980	9,520
AV	7,687	7,932	8,511	11,570
deviation	0,60	0,81	1,31	2,46
median	7,78	8,29	8,08	10,90

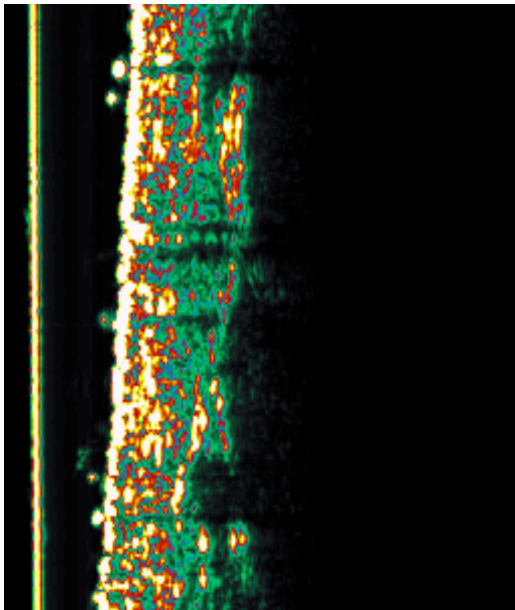
Efficacy test medilab 19/2/04 Ultrasound B-Scan - skin density



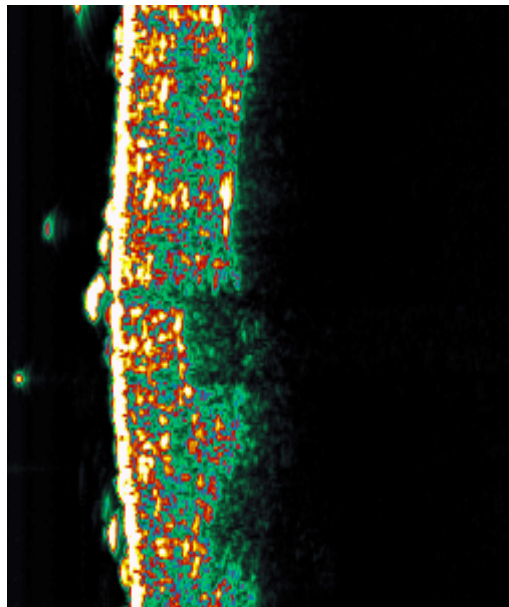
Efficacy test medilab 19/2/04 Ultrasound B-Scan - skin density



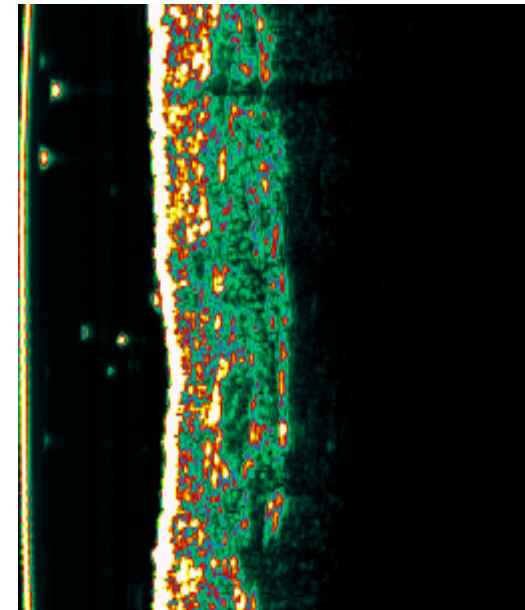
**Efficacy test medilab 19/2/04
Ultrasound B-Scan
P11 left thigh**



before

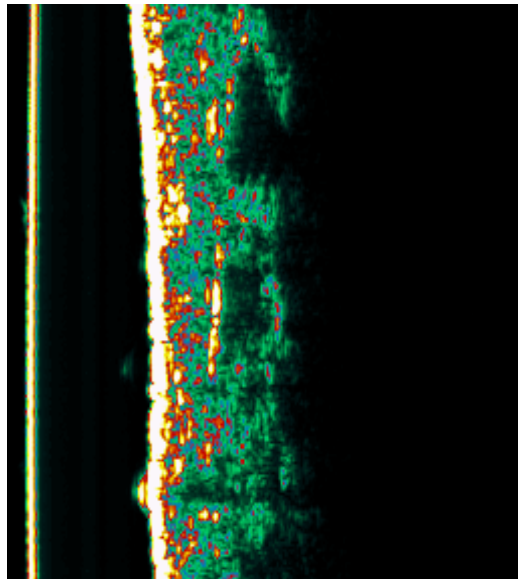


after 3 weeks

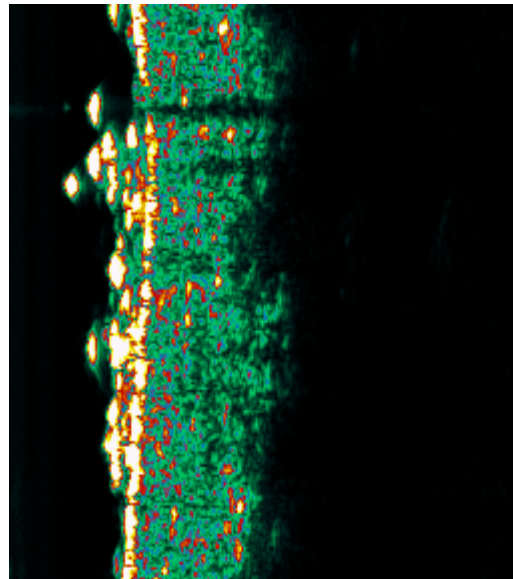


after 6 weeks

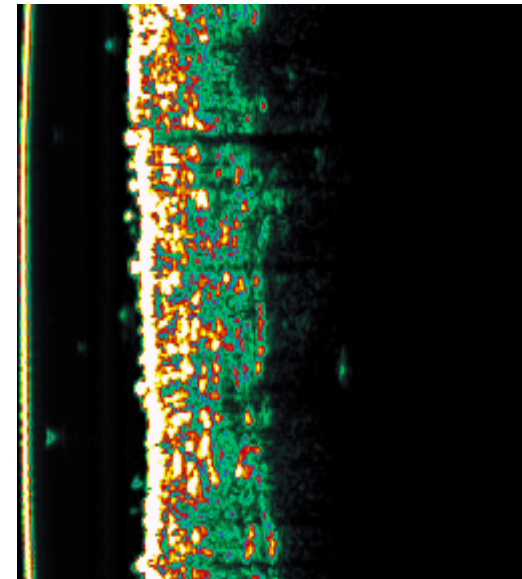
Efficacy test medilab 19/2/04
Ultrasound B-Scan
P11 right thigh



before



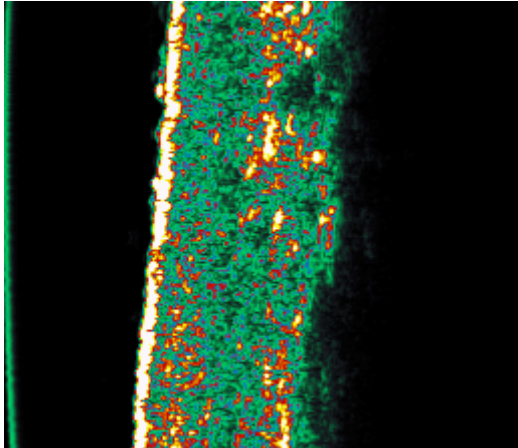
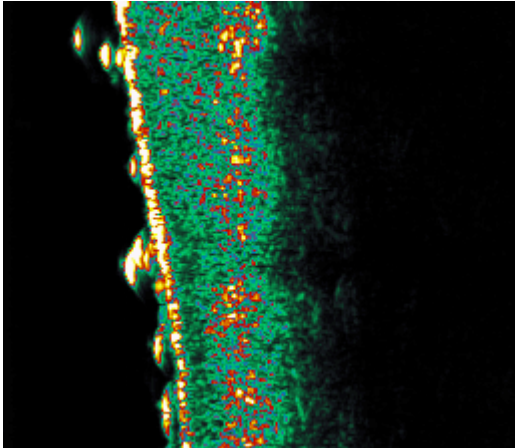
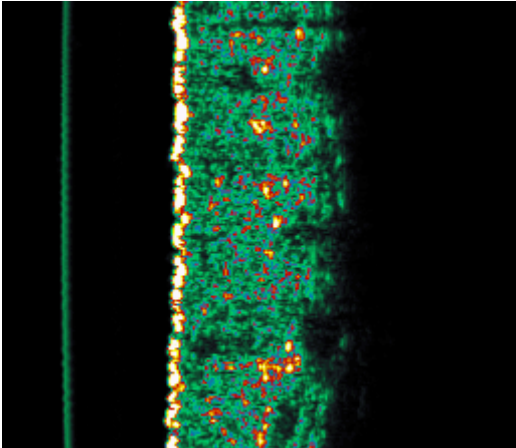
after 3 weeks



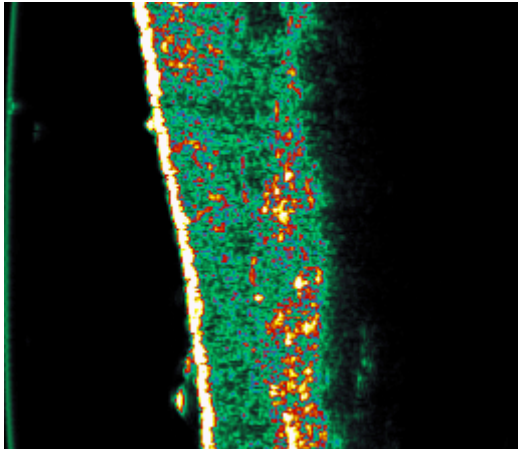
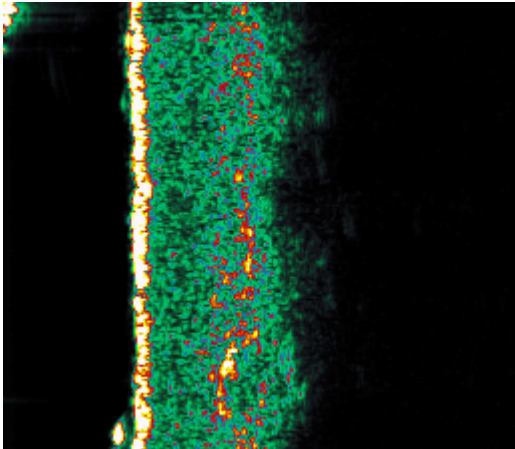
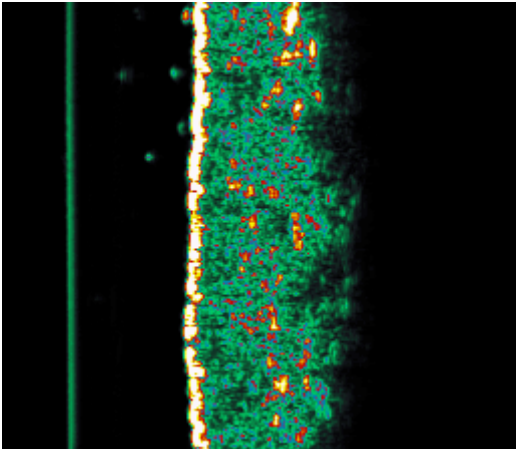
after 6 weeks

Efficacy test medilab 19/2/04
Ultrasound B-Scan

P 8 right thigh



P8 left thigh



before

after 3 weeks

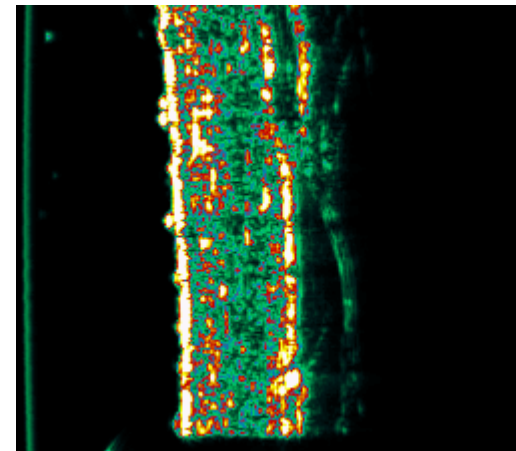
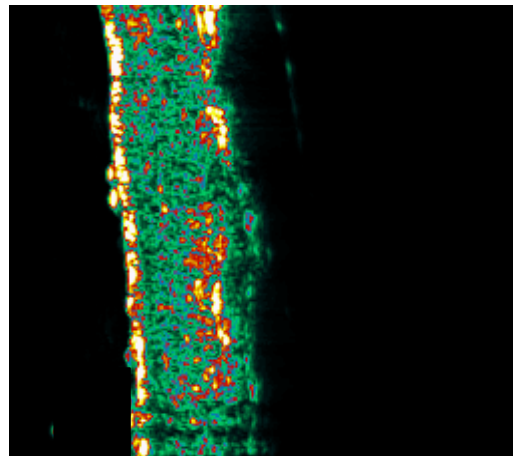
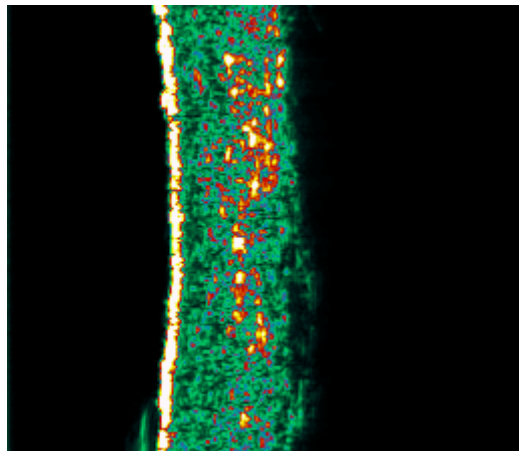
after 6 weeks

P5

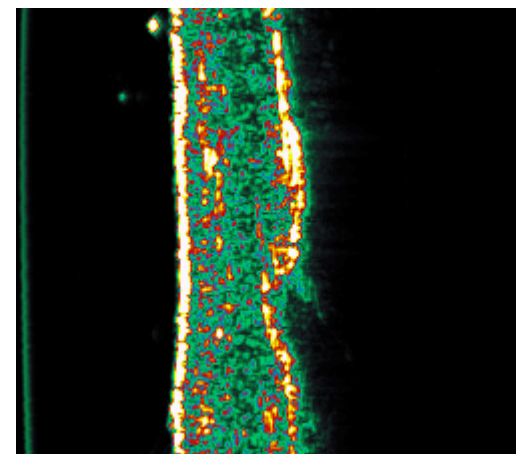
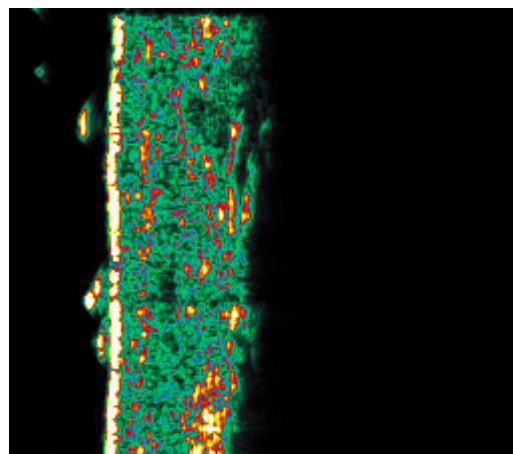
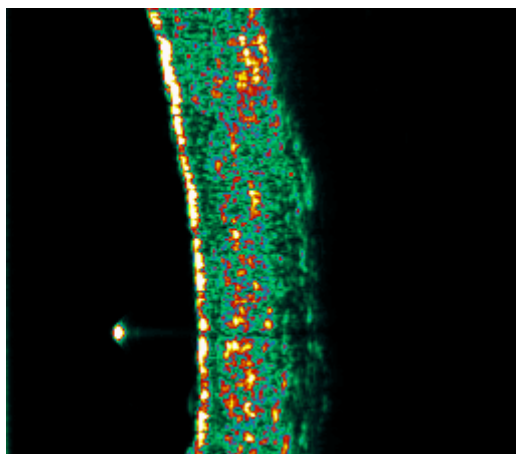
**Efficacy test medilab 19/2/04
Ultrasound B-Scan**



right breast



left breast



before

after 3 weeks

after 6 weeks

beauty**tek**
by **neosoma**

Heidelind Latz

Dr. med. Norbert Arndt

GbR

Success with the "beautytek" Treatment

Subjective Success Criteria as an Additional Gauge of Appropriate Treatment

June 2004

At the assignment of the firm of medilab, Würzburg, a study into the success of the "beautytek" treatment for legs and breasts was undertaken by the Institute for Experimental Dermatology, under the direction of Prof. Dr. H. Tronnier, University of Witten-Herdecke, and the neosoma Institute in Cologne.

Success criteria for scientific studies are documented exclusively in terms of scientific methods of measurement as a means of achieving empirically substantiated investigative results, subjective success criteria for such target groups being disregarded, so far, as a valid parameter.

This study involved 12 test persons, all females between 32 and 54 years of age.

Within the context of the present study the 12 test persons completed a cycle of treatment lasting 6 weeks: each received 1x breast treatment and 1x leg treatment in a single session, 2x a week.

All test persons reported experiencing additional effects from the treatment. The main effect experienced was a notable improvement in capability attributed to a remarkable increase in bodily energy. This led to greater fitness; a higher performance over the course of the day without the tiredness otherwise mentioned. At the same time a notable increase in the relaxation level was registered both during and after treatment.

Half of those taking part in the study also experienced loss of weight without taking any additional measures. Skirts and trousers that had long been stowed in the wardrobe suddenly fitted again.

A reduction in the fatty tissue in the regions treated was recorded. Cellulite-related hardening of fat was greatly reduced in all cases.

The skin structure showed a reduction in terms of creases and wrinkles, or of fat, as well as a smoothing in the areas treated.

Breast therapy also resulted in a marked tautening of the skin in the side rib regions. The test persons noticed an accompanying fat reduction and tautening of the upper abdomen.

All test persons were enthusiastic about the improvement in the internal firmness of their breasts. It was important for all of them that the breasts took on a firmer form. This was also detectable for the test persons in that, when lying, their breasts no longer slid away to the side. Several even had to readjust the straps of their bras.

All of the test persons found the re-won firmness of their breasts more important than a lifted shape.

The results obtained showed that great value was attached by all of the test persons to the subjective success parameters.

Test person: I. A.

Age: 54
St. size: 40
Sport: Walking

General State of Health During the Treatment

- Urge to pass water
- Very high bodily energy
- Feels, all in all, very fit
- Also mentally highly active. Had previously to undertake lymphatic drainage for the eyes in the mornings, since very swollen. Was no longer necessary, due to the BT treatment
- Bottom connection with leg became much firmer due to leg therapy

Breast Therapy:

- Breasts much firmer
- Breasts lifted
- Marked improvement of the skin
- Back and the side areas under the arms much tauter and firmer
- Upper arm at shoulder much firmer

Breast-Photo Features:

Front	01+12	Breasts lifted, side areas tautened
Right	01+12	Back area without folds, marked tautening of the skin fat reduction at abdomen, skin tautened

Leg Therapy:

- Skin surface much tauter
- Musculature much firmer
- Skin irregularities much smoother
- Marked vitality in the legs
- High reduction of cellulite
- Bottom at leg became much firmer

Leg-Photo Features:

Left	01+12	marked tautening of the skin
Behind	01+12	Tautening of the skin, with far fewer indents in the skin surface

Test person: M. B.

Age: 50
St. size: 46
Sport: Walking (once a month)
Bra size: 85 E-F!!!!
Weight: 89 kg

General State of Health During the Treatment:

The test person had a recurrent bursitis at the right hip. She had been receiving medical treatment for this complaint for several years. Following the 8th BT session she was completely without pain.

Breast Therapy:

- After the 6th BT session, marked improvement of the skin
- Breasts have become firm and lifted
- The fatty bulge at the foot of the neck has been notably reduced in size

Breast-Photo Features:

Front	01+12	Left lifted, right lifted
Left	01+12	Breasts internally firmer, fat reduction at the upper abdomen

Leg Therapy:

- Marked improvement of the skin
- Indents greatly reduced
- Abdomen reduced in size
- Can wear "old" trousers again

Patient is very pleased with the results achieved. With her 89 kg she never thought that such results could be achieved on breasts and legs, not to forget the side effects at the throat and the upper abdomen and the elimination of pain.

Test person: Ms. B.

Age: 37
St. size: 40
Sport: Delivers newspapers every night and has a full-time job during the day.

General State of Health:

Strong urge to pass water.

With the help of the selective-food method, test person lost 50 kg between 2001 and the beginning of 2003.

From standard size 54 to size 40. The skin has suffered accordingly: very notable indents, very soft skin and breasts.

Very soft, overlapping fat on the inner sides of the thighs.

Test person's skirt of fat above the pubis, which resulted from the extreme weight loss, was removed by surgery.

Due to her daytime and night-time work, test person is very often tired. Thanks to the BT treatment she now has appreciably more energy. In particular, when she gets up during the night to go to work she now feels much fitter, due to the BT treatment.

Breast Therapy

As from the 8th BT session breasts much fuller and firmer.

Breast-Photo Features:

Front	01+12	Both breasts lifted, internally much firmer
Right	01+12	High fat reduction in the side fold

Leg Therapy:

Initially strong itching and spots during the night due to ACT. Vanished after 3 days. Thereafter, she was well able to tolerate ACT.

- Firmness of inner thigh achieved
- Marked improvement in the surface of the skin
- Indents in the skin greatly improved
- Legs generally firmer
- Trousers fit again
- Scar from surgery (removal of the skirt of fat), extending from right hip to left hip.

Leg-Photo Features:

Front	01+12	Folds of skin on the upper inner side of the leg much firmer
Left	01+12	Marked reduction of fat on the inner upper thigh and tautening
Right	01+12	Ditto

Test person: R. D.

Age: 47
St. size: 40
Sport: Yoga (once a week)
Light gymnastics (once or twice a week)

Test person light-skinned, red-haired. Has very sensitive skin.

General State of Health During the Treatment:

- Strong laxative effect, though not unpleasant
- Strong urge to pass water.

Breast Therapy:

Marked reddening after the 1st and 2nd sessions of treatment; vanished again.

- Skin much tauter
- Breasts became internally firmer

Leg Therapy:

- The inner thigh at the top of the leg had perceptible, chicken-egg-sized accumulations of fatty tissue, which vanished completely.
- Marked improvement in the skin of the entire thigh.

- Test person felt more vitality in the legs and had a feeling of improved circulation.

Test person Ms. D.

Age: 52
St. size: 40
Sport: Home trainer (once a week)

General State of Health During the Treatment:

- Strong urge to pass water
- Despite pronounced tiredness before the BT treatment, the test person always felt especially fit after the treatment. Then did house-cleaning or else went out, which was otherwise seldom the case.

Breast Therapy:

Marked reddening after the 1st and 2nd sessions of treatment; vanished again.

- Breasts were altogether firmer
- When lying, outer sides much rounder
- Fat reduction of the upper abdomen

Breast-Photo Features:

Front	01+12	Breasts became firmer
Left	01+12	Breasts lifted, side areas firmer

Leg Therapy:

- After 7 session of treatment the test person's "old" trousers fitted her again, especially at the thighs
- Indents on the inside of the leg greatly reduced
- Old scar at the inguen much smoother; no longer has a bluish colour

Leg-Photo Features:

Front	01+12	Skin surface significantly improved, cellulite greatly reduced
Behind	01+12	Marked improvement in the surface of the skin, fat reduction
Left	01+12	Fat reduction, skin improvement

Test person: N. D.

Age: 32
St. size: 40 (above)
42 (below)
Sport: Running (once a week)

General State of Health During the Treatment:

Has breast-fed. Has a 3-year-old child. Is thus under considerable stress.

- Generally much more bodily vitality
- Urge to pass water
- Due to the BT treatment she is now much fitter in the morning and no longer feels tired, even after having had little sleep
- In general feels much more bodily active

Breast Therapy:

- After 7 sessions of treatment the breasts were internally much firmer, which she also felt during her running training.
- Breasts see-sawed less notably. Has also seen this in the mirror. Has reset her bra higher.
- Reduction of fat at the upper abdomen.
- Test person says she again has the same firm bosom that she had before breast-feeding.

Breast-Photo Features:

Right 01+12 **Breasts lifted, sides are firmer**
Fat reduction at the upper abdomen

Leg Therapy:

After the 1st session of ACT treatment, marked reddening and itching. Vanished after 2 days.

- Marked improvement in the structure of the skin
- Greater firmness in the thighs
- Has a pleasant tingling in the legs; more vitality
- Marked improvement in the structure of the skin
- Cellulite level significantly improved
- Bottom has become firmer at the legs

Test person: S. G.

Age: 33
St. size: 42
Sport: General fitness (once a week)
Child aged one-and-a-half; test person breast-fed for 8 months.

General State of Health:

- Urge to pass water
- Body altogether much livelier.
- Getting up in the mornings no longer a problem, since no longer as tired.
- Feels fit enough for a long-distance run, which the test person has not done for a long time.

Breast Therapy:

Test person has recovered the breast form and firmness she had before breast-feeding

- As from the 6th session of treatment the breasts were much firmer
- To the side of the breasts, under the arms and at the back, body areas much firmer
- No longer rolls of fat with bra imprints.

Breast-Photo Features:

Front	01+12	Breasts became firmer
Right	01+12	Breasts lifted, sides are firmer
		Fat reduction at the upper abdomen

Thigh Therapy:

- After 7 sessions of BT treatment trousers significantly looser at the behind
- "Waves" on the surface of the skin much smoother
- Trousers one size smaller
- Significant improvement in the surface of the skin
- Cellulite level greatly reduced
- Reduction of fat

Test person: Ms. H.

Age: 40
St. size: 44
Sport: Samba dancing (once a week)

General State of Health During the Treatment:

- Strong urge to pass water
- Very high bodily energy
- Feels good circulation throughout her body, resulting in better performance capability
(occupation: night nurse)

Breast Therapy:

- As from the 6th session of treatment the breasts became rounder and firmer; felt more full-bodied
- Breasts self-supporting even without a bra.
- Fat reduction at the sides of the breasts
- Fat reduction at the abdomen

Breast-Photo Features:

Right	01+12	Side-area fat reduction
Left	01+12	Ditto, fat reduction at the upper abdomen

Leg Therapy:

After the 1st and 2nd session of ACT treatment, marked reddening without spots, and slight itching.

- Strong feeling of energy and revitalization in the legs, even during the treatment
- Leg muscles feel pleasantly firmer and very relaxed, so that the test person no longer has a feeling of tiredness in the legs
- After 6th session of treatment, trousers at the thighs much roomier
- Surface of the skin became much smoother.

Leg-Photo Features:

Front	00+12	Surface of the skin significantly improved Cellulite level greatly reduced, good skin-surface improvement
Left	00+12	Fat reduction, skin improvement
Right	00+12	Ditto

Test person: C. H.

Age: 41
St. size: 44
Sport: None

General State of Health During the Treatment:

Test person felt altogether much fresher and livelier

Breast Therapy:

Breasts were appreciably firmer. Good improvement of the skin.
Side areas became firmer

Breast-Photo Features:

Right	01+12	Fat reduction at the upper abdomen, fat reduction at the sides
Left	01+12	Ditto

Leg Therapy:

Good vitality in the legs. Can climb stairs again without the legs hurting.

Leg-Photo Features:

Behind	01+12	Marked fat reduction, surface of the skin significantly improved Cellulite level greatly reduced, good skin-surface improvement, fat reduction
Left	01+12	Fat reduction, skin improvement

Test person: J. H.

Age: 49
St. size: 42
Sport: Gymnastics (once a week), yoga

General State of Health During the Treatment:

3 children breast-fed.

- Strong though not unpleasant urge to pass water
- Very good body energy level
- Feels much more alive, due to the treatment. Especially in the evening, she feels much fitter than before the cycle of treatment.

Breast Therapy:

As from the 6th session of treatment, firmness in the breasts. When lying, the breasts no longer fall as notably to the side.

Breast-Photo Features:

Right	01+12	Breasts firmer. Back area folds of skin tautened, fat reduction of the upper abdomen. side areas tautened
	01+12	Breasts lifted

Leg Therapy:

- Had a meniscus operation in June, 2003, and although the stitching of the scar was not treated with BT, the scar and stitching have become much smoother. Strong, highly unpleasant pains in the knee since the operation. These pains have meanwhile disappeared.
- Can easily climb 3 flights of stairs without having a feeling of tiredness in the legs.
- Cellulite level was significantly improved.

Leg-Photo Features:

Front	01+12	Marked fat reduction, surface of the skin significantly improved Cellulite level greatly reduced
Behind	01+12	Good improvement in the surface of the skin, fat reduction Fold below the bottom reduced in size

Test person: A. T.

Age: 46
St. size: 48
Sport: None

General State of Health During the Treatment:

- Strong urge to pass water
- Very high body energy

Breast Therapy:

As from the 8th session of treatment, firmness in the breasts. When lying, the breasts no longer fall as notably to the side.

Breast-Photo Features:

Right	01+12	Breasts firmer. Fat reduction at the upper abdomen, tautening at the sides
Left	01+12	Breasts tauter

Leg Therapy:

- Surface of the skin tautened
- Reduction of indents

Leg-Photo Features:

Front	01+12	Marked fat reduction, surface of the skin significantly improved Cellulite level greatly reduced
Behind	01+12	Good improvement to the surface of the skin, fat reduction, far fewer indents
Left	01+12	Ditto

Test person: J. W.

Age: 32
St. size: 44
Sport: None

General State of Health:

Test person has breast-fed 2 children. Children are 1 and 3 years of age. Due to the children, test person is under considerable stress. Must rise very early in the morning.

Lost 20 kg in 2003 with Weight Watchers. From standard size 48 to 44.

Lost 3 kg during the BT treatment.

Felt much fresher as a result of the BT treatment. Feels much fitter, particularly in the morning, than she did before the BT treatment.

Breast Therapy:

- As from the 3rd session of the BT treatment the test person felt much fresher.

- Feels very energetic.

- Breasts became very much firmer.

- Abdomen was also tautened up to the area of the navel.

- Bra adjusted after the 6th session, since the breasts had lifted.

Slow improvement initially, but then a sudden push as from the 6th session of BT treatment.

Breast-Photo Features:

Right	01+12	Marked tautening of the skin, breasts much firmer
Left	01+12	Breasts firmer and lifted, side tautened Fat reduction at the abdomen

Leg Therapy:

- Surface of the skin much smoother.

- After the 9th session of treatment, one trouser-size smaller.

Before the 8th session of treatment the trouser legs came no further than the thigh (rapid reduction until the 6th session of treatment, thereafter somewhat slower)

- Indents greatly reduced.

Leg-Photo Features:

Front	01+12	Inside of upper leg significantly firmer, marked reduction of the cellulite level
Behind	01+12	Marked improvement in the surface of the skin, fat reduction
Right	01+12	Marked tautening of the indents and the surface of the skin and marked reduction of the cellulite level

Photographic documentation: Test person I. A.



before treatment



after 12 treatments



before treatment



after 12 treatments

Photographic documentation: Test person Ms. B.



before treatment



after 12 treatments



before treatment



after 12 treatments



before treatment



after 12 treatments

Photographic documentation: Test person Ms. D.



before treatment



after 12 treatments



before treatment



after 12 treatments

Photographic documentation: Test person C. H.



before treatment



after 12 treatments



before treatment



after 12 treatments

Photographic documentation: Test person A. T.



before treatment



after 12 treatments



before treatment



after 12 treatments