

DR. ROBERT HEINZ & PARTNER
Medical Consulting

A-1070 Vienna, Kaiserstraße 84
Tel.: (1) 524 61 78
Fax: (1) 524 61 78/22
Email: mail@heinz-consulting.com

Post-Market Surveillance Study

SYNOCROM[®] forte **in Gonarthritits**

in December 2007

Commissioned by:

Croma Pharma
2100 Korneuburg, Stockerauerstrasse 181

Statistical evaluation:

Dr. Robert Heinz & Partner Medical Consulting
1070 Vienna, Kaiserstraße 84/9
November 2007

Contents

| | |
|--------------------------------------------------------------|----|
| Introduction | 4 |
| Statistical methods | 4 |
| Patient group | 5 |
| Diagnosis | 8 |
| Severity of the disease | 8 |
| Duration of the disease | 8 |
| Hyaluronic acid..... | 9 |
| Intensity of pain during / after the therapy | 10 |
| Pain intensity without outliers (P10-P90)..... | 15 |
| Efficacy and tolerability of the therapy | 18 |
| Side effects – swelling..... | 22 |
| Additional medication for the treatment of gonarthrosis..... | 24 |
| Additional pain therapy | 26 |
| Painkillers during the therapy..... | 26 |
| Painkillers after the therapy..... | 27 |

Figures

- Fig. 1: Pain intensity (VAS scale) during the therapy
- Fig. 2: Pain intensity (VAS scale) after the end of the therapy
- Fig. 3: Pain intensity (VAS scale) at the start of the therapy
- Fig. 4: Pain intensity (VAS scale) at the start of the therapy, according to disease severity (grades I-III)
- Fig. 5: Pain intensity (VAS scale), according to disease severity (grades I-III)
- Fig. 6: Pain intensity (VAS scale) (without outliers at the start) during the therapy
- Fig. 7: Pain intensity (VAS scale) (without outliers at the start) after the therapy; month 1 to month 11
- Fig. 8: “Good” and “very good” efficacy ratings (%) after the injection therapy

Tables

- Table 1: Description of the group – Age of the patients
- Table 2: Description of the group – Body Mass Index (BMI) of the patients
- Table 3: Description of the group – Weight and height of the patients
- Table 4: Description of the group – Severity of the disease at the start of the treatment
- Table 5: Description of the group – Duration of the disease
- Table 6: Description of the group – Number of treatments with hyaluronic acid
- Table 7: Pain intensity (VAS scale) during the therapy
- Table 8: Pain intensity (VAS scale) after the therapy; month 1 to month 6
- Table 9: Pain intensity (VAS scale) after the therapy; month 7 to month 11
- Table 10: Pain intensity (VAS scale) at the start of the therapy
- Table 12: Pain intensity (VAS scale) (without outliers at the start) during the therapy
- Table 11: Pain intensity according to disease severity during the therapy
- Table 12: Pain intensity (VAS scale) (without outliers at the start) during the therapy
- Table 13: Pain intensity (VAS scale) (without outliers at the start) after the therapy; month 1 to month 6
- Table 14: Pain intensity (VAS scale) (without outliers at the start) after the therapy; month 7 to month 11
- Table 15: Efficacy and tolerability (assessment by doctor) after the **SYNOCROM® forte** therapy
- Table 16: Efficacy (assessed on the basis of the patient diary) during the therapy
- Table 17: Efficacy (assessed on the basis of the patient diary) after the therapy
- Table 18: Severity of the swelling that occurred during the therapy
- Table 19: Intensity of swelling, and measures taken, in each patient during treatment with **SYNOCROM® forte**
- Table 20: Number of swelling cases that occurred during the therapy
- Table 21: Number of patients using additional therapy
- Table 22: Prescribed additional therapy, per patient
- Table 23: Use of painkillers during the treatment with **SYNOCROM® forte**
- Table 24: Use of painkillers after the treatment with **SYNOCROM® forte**

Introduction

This study was carried out in Austria, in 115 patients suffering from gonarthrosis, in the period between March 2006 and August 2007.

The patients were given 3 intra-articular injections of **SYNOCROM® forte** at weekly intervals (in accordance with the Prescribing Information)

Data were recorded before each injection and at monthly intervals after the end of the therapy.

This post-marketing surveillance study looks at the data of patients whose knee joints were treated with **SYNOCROM® forte**.

Statistical methods

The statistical evaluation was carried out with the REPORT/TESTIMATE program of the company idv - Datenanalyse und Versuchsplanung, Gauting/Munich. All parts of the program have been validated; the work undertaken at Heinz & Partner is carried out in accordance with the SOPs developed by IDV.

The methods used to describe data in the interim evaluation were mainly descriptive. For important quantitative variables, classical statistical parameters (mean, median, lowest value, highest value, standard deviation) were used to describe the data.

Qualitative variables, such as the assessment of the efficacy of the treatment, were analysed by calculation of frequency.

The treatment results for **SYNOCROM® forte** over time are analysed using non-parametric methods (Wilcoxon-Mann-Whitney). For all the statistical calculations, a two-tailed p value of < 0.05 is used as the significance threshold.

The table below lists the Mann-Whitney values which are used to interpret the results. The Mann-Whitney value can be between 0 and 1; a value of 0.5 indicates identity (no difference). The further away the value is from 0.5, the greater the weight attached to the difference. Thus, for example, a value of 0.64 or above indicates medium superiority and a value of 0.71 or above indicates large superiority. From a value of 0.64 (medium superiority), the difference is described as relevant superiority.

In what follows, therefore, the Mann-Whitney values will be given in addition to the p values.

| Interpretation of the results | Mann-Whitney value |
|-------------------------------|--------------------|
| Large superiority | 0.71 |
| Medium superiority | 0.64 |
| Small superiority | 0.56 |
| Equality | 0.50 |
| Small inferiority | 0.44 |
| Medium inferiority | 0.36 |
| Large inferiority | 0.29 |

Patient group

Patient data are available for a total of 115 knee joints treated with **SYNOCROM® forte**. The age of the group is shown in Table 1. There is very considerable variation in the patients' ages. Both young adults of 31 years of age and elderly patients of 84 years of age were included in the post-marketing surveillance study, i.e. treated with **SYNOCROM® forte**. This is a very good reflection of practice. The median age of the patients is 61 years. Their mean age is 61.6 ± 11.3 years.

Age of the patients STATISTICS

| | AGE Years |
|-----------------------|--------------|
| Synocrom-forte | |
| Mean | 61.6 |
| Std Dev | 11.32 |
| Min | 31.0 |
| Lo Quar | 55.0 |
| Median | 61.0 |
| Up Quar | 68.0 |
| Max | 84.0 |
| Valid N | 115 |

Table 1: Description of the group – Age of the patients

More women than men were included in the post-marketing surveillance study. 60% of the patients who had their knee joints treated with **SYNOCROM® forte** were women and 40% were men.

The patients' BMI (body mass index), which is calculated by dividing body weight by height (in m²), is on average distinctly above normal. Their median BMI is approximately 27 kg/m². More details can be found in the following table.

BMI

| STATISTICS | |
|----------------|--------|
| | BMI |
| Synocrom-forte | |
| Mean | 27.434 |
| Std Dev | 3.9260 |
| Min | 21.551 |
| Lo Quar | 24.725 |
| Median | 26.953 |
| Up Quar | 29.001 |
| Max | 40.009 |
| Valid N | 113 |

Table 2: Description of the group – Body Mass Index (BMI) of the patients

To provide a complete picture, the height and body weight of the patients are presented again descriptively in the following table.

Weight and height

| STATISTICS | | |
|----------------|--------|--------|
| | HEIGHT | WEIGHT |
| Synocrom-forte | | |
| Mean | 1.693 | 78.8 |
| Std Dev | 0.0876 | 12.25 |
| Min | 1.420 | 46.0 |
| Lo Quar | 1.640 | 69.0 |
| Median | 1.700 | 78.0 |
| Up Quar | 1.760 | 85.0 |
| Max | 1.870 | 115.0 |
| Valid N | 114 | 113 |

Table 3: Description of the group – Weight and height of the patients

Diagnosis

Severity of the disease

Over half (approximately 55%) of the diseased knee joints, that were treated with **SYNOCROM® forte**, are in severity category II (moderate) (Table 4). There are more patients with severe gonarthrosis (28% grade III) than with mild gonarthrosis (17% grade I).

Severity of the disease

Criterion: Grad-Gona; Group: Synoc-fort

| Frequency Table | | Frequency Plot |
|-----------------|-------|----------------|
| Abs. Frequency | Count | (1 : 1.0000) |
| (Val= 115) | Count | Percent |
| GradI | 20 | 17.39 |
| GradII | 63 | 54.78 |
| GradIII | 32 | 27.83 |

Table 4: Description of the group – Severity of the disease at the start of the treatment

Duration of the disease

On average, the investigated patients treated with **SYNOCROM® forte** suffered from gonarthrosis for over 5 years (5.2 ± 5.7 years). As can be seen from the standard deviation, there is very considerable variation in the duration of the patients' disease, which ranges from 0.2 to 40 years (Table 5).

| Duration | YEARS |
|----------------|-------|
| Synocrom-forte | |
| Mean | 5.22 |
| Std Dev | 5.699 |
| Min | 0.20 |
| Lo Quar | 1.50 |
| Median | 3.00 |
| Up Quar | 7.00 |
| Max | 40.00 |
| Valid N | 101 |

Table 5: Description of the group – Duration of the disease

Hyaluronic acid

A third (33.3%) of the knee joints treated with **SYNOCROM® forte** had previously been treated with hyaluronic acid.

The number of treatments differs. There is very considerable variation in the data. The number of previous hyaluronic acid treatments ranges from 1 to 9. The average is 3.2 ± 2.36 per patient.

| | Therapy Hyaluronic Acid |
|----------------|----------------------------|
| Synocrom-forte | |
| Mean | 3.2 |
| Std Dev | 2.36 |
| Min | 1.0 |
| Lo Quar | 1.0 |
| Median | 2.0 |
| Up Quar | 5.0 |
| Max | 9.0 |
| Valid N | 36 |

Table 6: Description of the group – Number of treatments with hyaluronic acid

Intensity of pain during / after the therapy

The intensity of the pain in the affected joints decreases during the **SYNOCROM® forte** therapy, the extent of decrease being significant ($p = 0.0001$) after the 2nd injection; it then remains at roughly the same level until month 11 after the end of the therapy. More details on this are provided in the following table and in Fig. 1.

| Synocrom-forte | Mean | Std Dev | Min | Lo Quar | Median | Up Quar | Max | Valid N |
|-------------------------------------------|------|---------|-----|---------|--------|---------|------|---------|
| Baseline before 1 st injection | 50.5 | 18,59 | 0.0 | 40.0 | 50.0 | 65.0 | 90.0 | 115 |
| Before 2 nd injection | 45.1 | 20.40 | 0.0 | 30.0 | 48.0 | 55.0 | 100 | 115 |
| Before 3 rd injection | 39.1 | 20.05 | 0.0 | 25.0 | 40.0 | 50.0 | 95.0 | 115 |
| Pain 1 month after therapy | 32.5 | 18.55 | 0.0 | 20.0 | 30.0 | 45.0 | 80.0 | 110 |
| Pain 2 month after therapy | 32.5 | 20.75 | 0.0 | 20.0 | 30.0 | 50.0 | 80.0 | 110 |
| Pain 3 month after therapy | 28.1 | 20.24 | 0.0 | 12.0 | 20.0 | 40.0 | 80.0 | 105 |
| Pain 4 month after therapy | 29.5 | 19.84 | 0.0 | 20.0 | 23.01 | 40.0 | 80.0 | 102 |
| Pain 5 month after therapy | 28.9 | 19.72 | 0.0 | 15.0 | 25.0 | 40.0 | 80.0 | 102 |
| Pain 6 month after therapy | 29.1 | 20.50 | 0.0 | 15.0 | 25.0 | 40.0 | 90.0 | 100 |
| Pain 7 month after therapy | 27.9 | 19.69 | 0.0 | 10.0 | 28.0 | 40.0 | 80.0 | 97 |
| Pain 8 month after therapy | 26.7 | 19.67 | 0.0 | 10.0 | 20.0 | 40.0 | 80.0 | 94 |
| Pain 9 month after therapy | 27.1 | 20.38 | 0.0 | 10.0 | 30.0 | 40.0 | 75.0 | 93 |
| Pain 10 month after therapy | 28.1 | 21.05 | 0.0 | 10.0 | 30.0 | 42.0 | 82.0 | 89 |
| Pain 11 month after therapy | 28.9 | 22.40 | 0.0 | 10.0 | 20.0 | 45.0 | 80.0 | 79 |

Table 7: Pain intensity (VAS scale) after the therapy; 1st injection to month 11

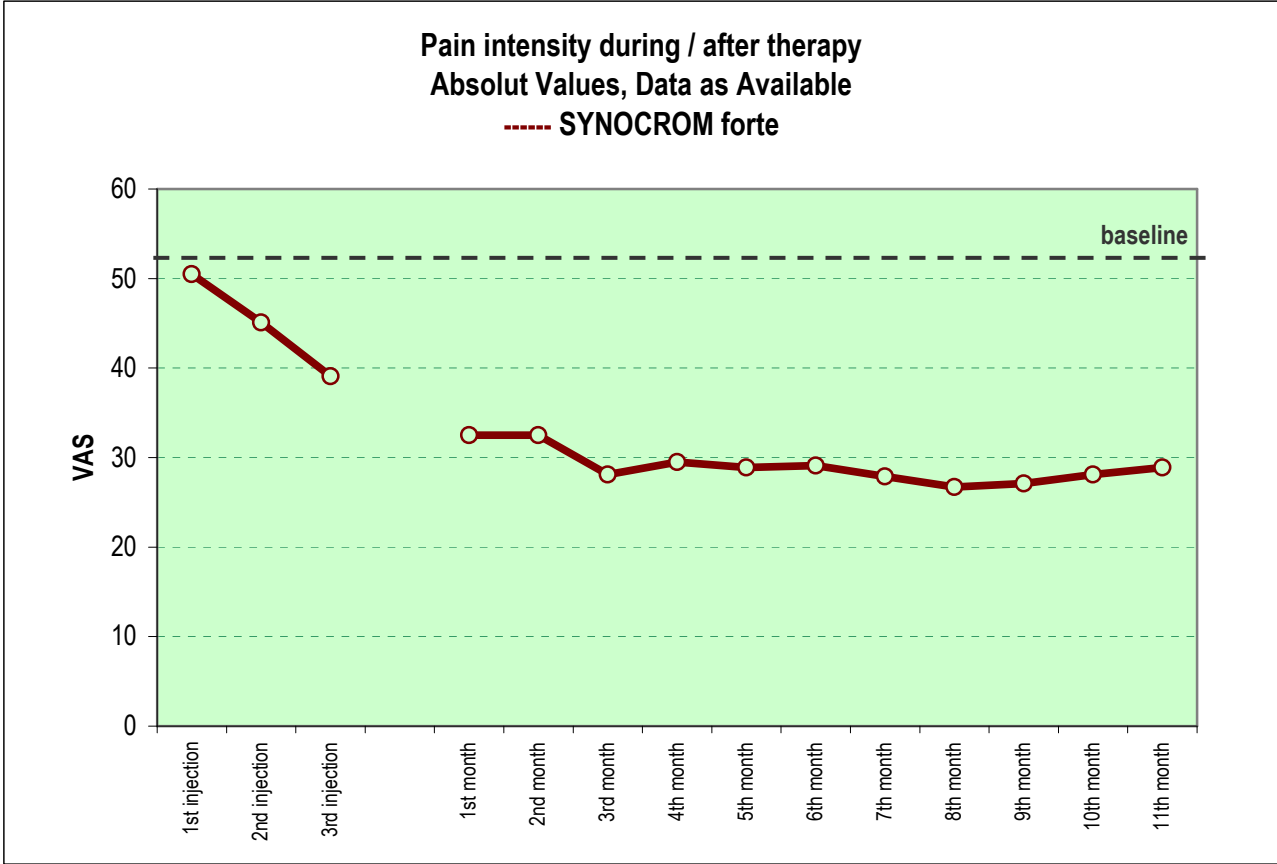


Fig. 1: Pain intensity (VAS scale) during / after the end of the therapy

Pain intensity, according to disease severity

At the start of the therapy (before and after the first injection) there are significant and clinically relevant differences in the intensity of the patients' pain, depending on the severity of the disease. Patients with grade I gonarthrosis have a significantly lower VAS score ($p = 0.0016$) than patients with grade II gonarthrosis or grade III gonarthrosis ($p = 0.0010$). These differences persist up to the 2nd injection ($p = 0.049$ and $p = 0.0188$). At the 3rd injection there are no longer any significant differences in pain intensity.

More details can be found in the following Figs.

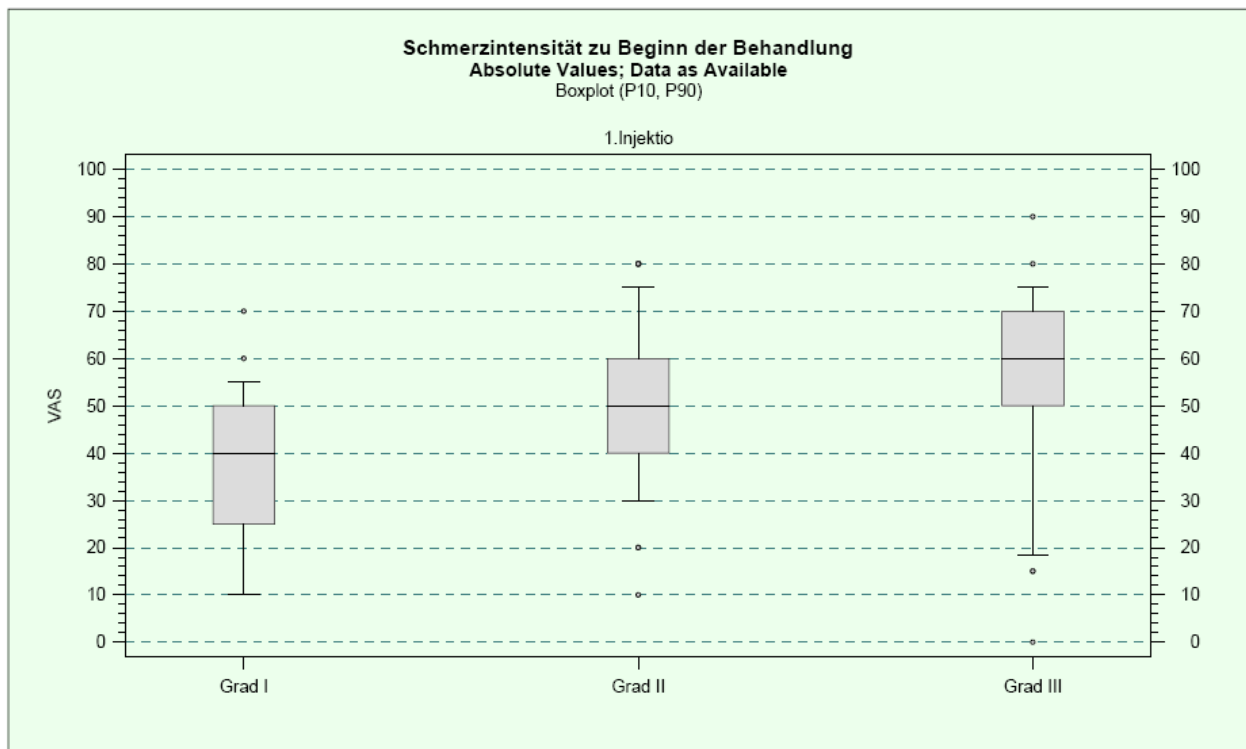


Fig. 4: Pain intensity (VAS scale) at the start of the therapy, according to disease severity (grades I-III)

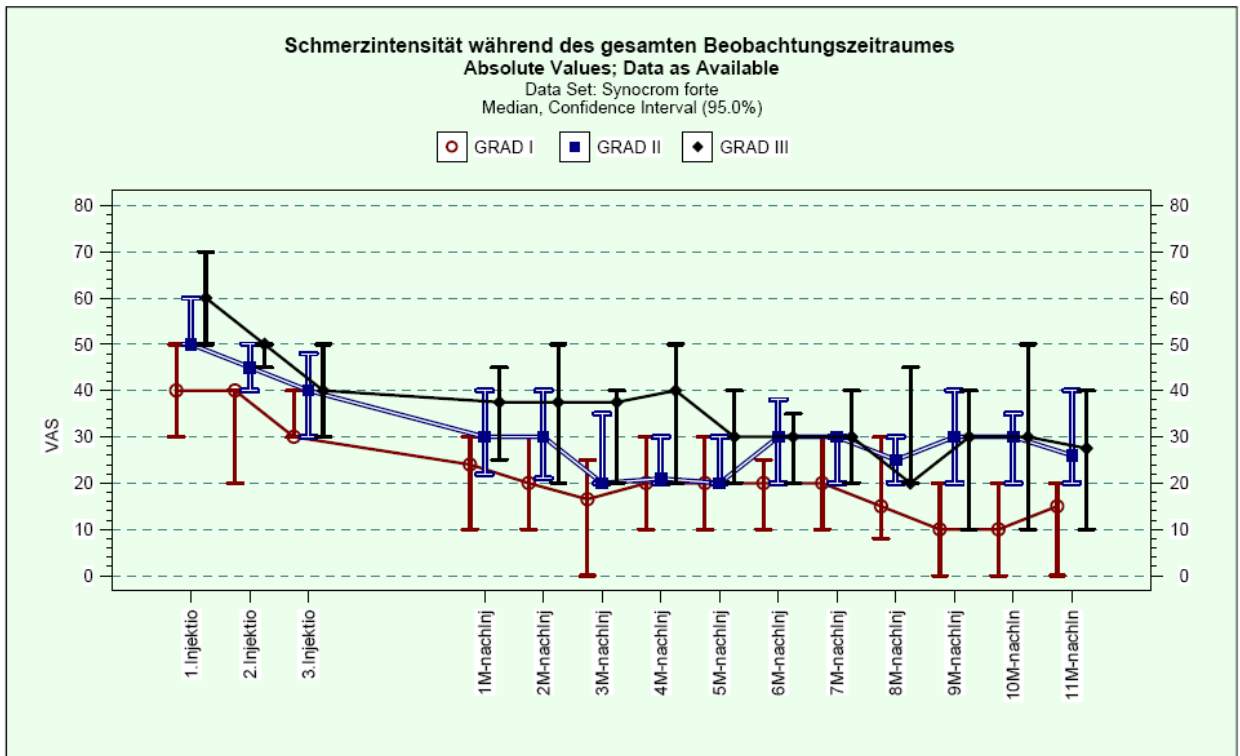


Fig. 5: Pain intensity (VAS scale), according to disease severity (grades I-III)

The following table shows the statistical parameters for pain intensity, according to disease severity, during the therapy.

| SYNOCROM forte | Pain before 1 st Injection | Pain before 2 nd Injection | Pain before 3 rd Injection |
|-----------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| Grade 1 | | | |
| Mean | 37.8 | 36.5 | 32.0 |
| Std Dev | 16.90 | 19.34 | 12.92 |
| Min | 10.0 | 10.0 | 10.0 |
| Lo Quar | 25.0 | 20.0 | 25.0 |
| Median | 40.0 | 40.0 | 30.0 |
| Up Quar | 50.0 | 47.5 | 40.0 |
| Max | 70. | 80.0 | 50.0 |
| Valid N | 20 | 20 | 20 |
| Grade 2 | | | |
| Mean | 52.4 | 46.8 | 39.5 |
| Std Dev | 15.94 | 20.93 | 20.51 |
| Min | 10.0 | 0.0 | 0.0 |
| Lo Quar | 40.0 | 35.0 | 25.0 |
| Median | 50.0 | 45.0 | 40.0 |
| Up Quar | 60.0 | 60.0 | 50.0 |
| Max | 80.0 | 100.0 | 85.0 |
| Valid N | 63 | 63 | 63 |
| Grade 3 | | | |
| Mean | 54.7 | 47.2 | 42.7 |
| Std Dev | 21.40 | 19.17 | 22.11 |
| Min | 0.0 | 0.0 | 0.0 |
| Lo Quar | 50.0 | 42.5 | 25.0 |
| Median | 60.0 | 50.0 | 40.0 |
| Up Quar | 70.0 | 52.5 | 60.0 |
| Max | 90.0 | 80.0 | 95.0 |
| Valid N | 32 | 32 | 32 |

Table 11: Pain intensity according to disease severity during the therapy

Pain intensity without outliers (P10-P90)

The following table includes only those patients treated with **SYNOCROM® forte** who had a VAS score of 20-75 at the screening examination.

| | Pain before 1 st Injection | Pain before 2 nd Injection | Pain before 3 rd Injection |
|----------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Synocrom-forte | | | |
| Mean | 51.4 | 45.6 | 38.8 |
| Std Dev | 14.21 | 17.41 | 18.35 |
| Min | 20.0 | 0.0 | 0.0 |
| Lo Quar | 40.0 | 40.0 | 29.0 |
| Median | 50.0 | 50.0 | 40.0 |
| Up Quar | 60.0 | 50.0 | 50.0 |
| Max | 75.0 | 100.0 | 95.0 |
| Valid N | 100 | 100 | 100 |

Table 12: Pain intensity (VAS scale) (without outliers at the start) during the therapy

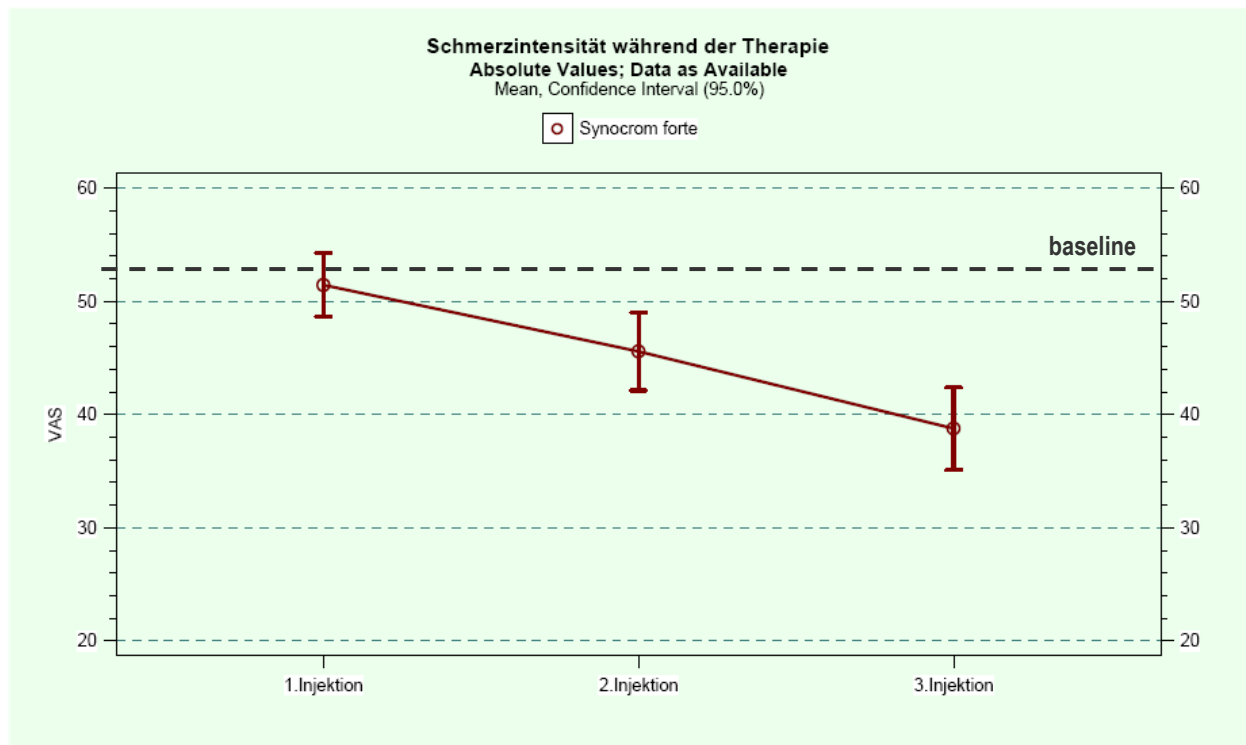


Fig. 6: Pain intensity (VAS scale) (without outliers at the start) during the therapy

| Synocrom- forte | Mean | Std Dev | Min | Lo Quar | Median | Up Quar | Max | Valid N |
|-----------------------------|------|---------|-----|---------|--------|---------|------|---------|
| Pain 1 month after therapy | 31.8 | 17.75 | 0.0 | 20.0 | 30.0 | 42.5 | 80.0 | 96 |
| Pain 2 month after therapy | 32.3 | 20.14 | 0.0 | 20.0 | 30.0 | 50.0 | 80.0 | 96 |
| Pain 3 month after therapy | 28.0 | 20.05 | 0.0 | 15.0 | 20.0 | 40.0 | 80.0 | 91 |
| Pain 4 month after therapy | 29.2 | 19.35 | 0.0 | 20.0 | 23.0 | 40.0 | 80.0 | 90 |
| Pain 5 month after therapy | 28.9 | 19.14 | 0.0 | 20.0 | 22.5 | 40.0 | 80.0 | 90 |
| Pain 6 month after therapy | 29.0 | 20.14 | 0.0 | 15.0 | 25.0 | 40.0 | 90.0 | 87 |
| Pain 7 month after therapy | 27.0 | 18.44 | 0.0 | 10.0 | 25.0 | 40.0 | 80.0 | 85 |
| Pain 8 month after therapy | 26.5 | 19.01 | 0.0 | 10.0 | 20.0 | 40.0 | 80.0 | 83 |
| Pain 9 month after therapy | 26.8 | 20.32 | 0.0 | 10.0 | 30.0 | 40.0 | 75.0 | 80 |
| Pain 10 month after therapy | 27.7 | 20.81 | 0.0 | 10.0 | 30.0 | 42.0 | 82.0 | 78 |
| Pain 11 month after therapy | 28.2 | 22.02 | 0.0 | 10.0 | 20.0 | 42.5 | 78.0 | 68 |

Table 13: Pain intensity (VAS scale) (without outliers at the start) after the therapy; month 1 to month 11

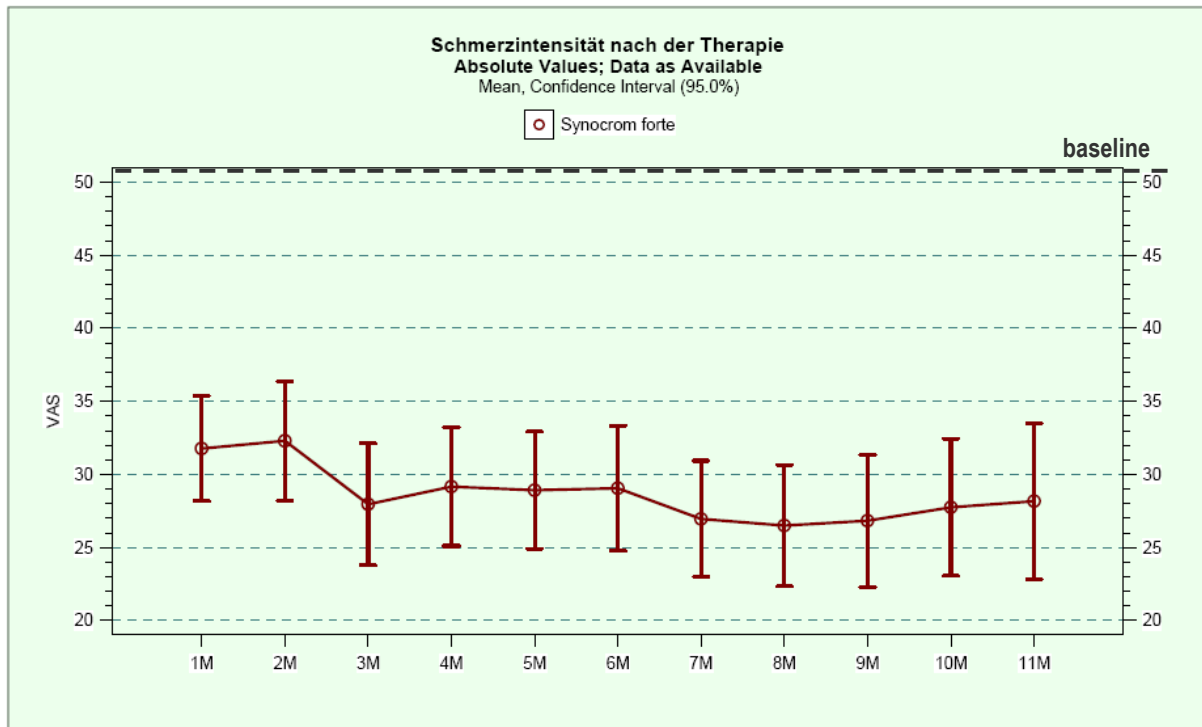


Fig. 7: Pain intensity (VAS scale) (without outliers at the start) after the therapy; month 1 to month 11

Efficacy and tolerability of the therapy

The doctors' overall assessments of the efficacy and tolerability of **SYNOCROM® forte** are summarized in the following table. Approximately 77% of the doctors rate the efficacy of the **SYNOCROM® forte** therapy as good or very good. Approximately 85% of the doctors rate the tolerability as good or very good.

| Efficacy | SYNOCROM forte N = (%) |
|---------------------|-------------------------------|
| Very good | 43 (40.95) |
| Good | 38 (36.19) |
| Satisfactory | 13 (12.38) |
| Unsatisfactory | 11 (10.48) |
| Tolerability | |
| Very good | 74 (69.16) |
| Good | 16 (14.95) |
| Satisfactory | 12 (11.21) |
| Unsatisfactory | 5 (4.67) |

Table 15: Efficacy and tolerability (assessment by doctor) after the **SYNOCROM® forte** therapy

After the first injection, over half of the patients (54%) rate the efficacy as good or very good. After the second injection, the proportion rating the efficacy as good or very good is already nearly 65%.

| 2nd injection/1st week | SYNOCROM® forte N= (%) |
|-----------------------------------------------------|-------------------------------|
| Very good | 5 (4.35) |
| Good | 57 (49.57) |
| Satisfactory | 29 (25.22) |
| Unsatisfactory | 24 (20.87) |
| 3rd injection/2st week | |
| Very good | 18 (16.07) |
| Good | 54 (48.21) |
| Satisfactory | 30 (26.79) |
| Unsatisfactory | 10 (8.93) |

Table 16: Efficacy (assessed on the basis of the patient diary) during the therapy

Fig. 8 shows very well that, after the therapy, over 70% of the patients rate the efficacy of **SYNOCROM® forte** as good or very good. This rating is maintained until month 9 after the therapy. Only then does the proportion rating the therapy as good or very good drop a little below 70%.

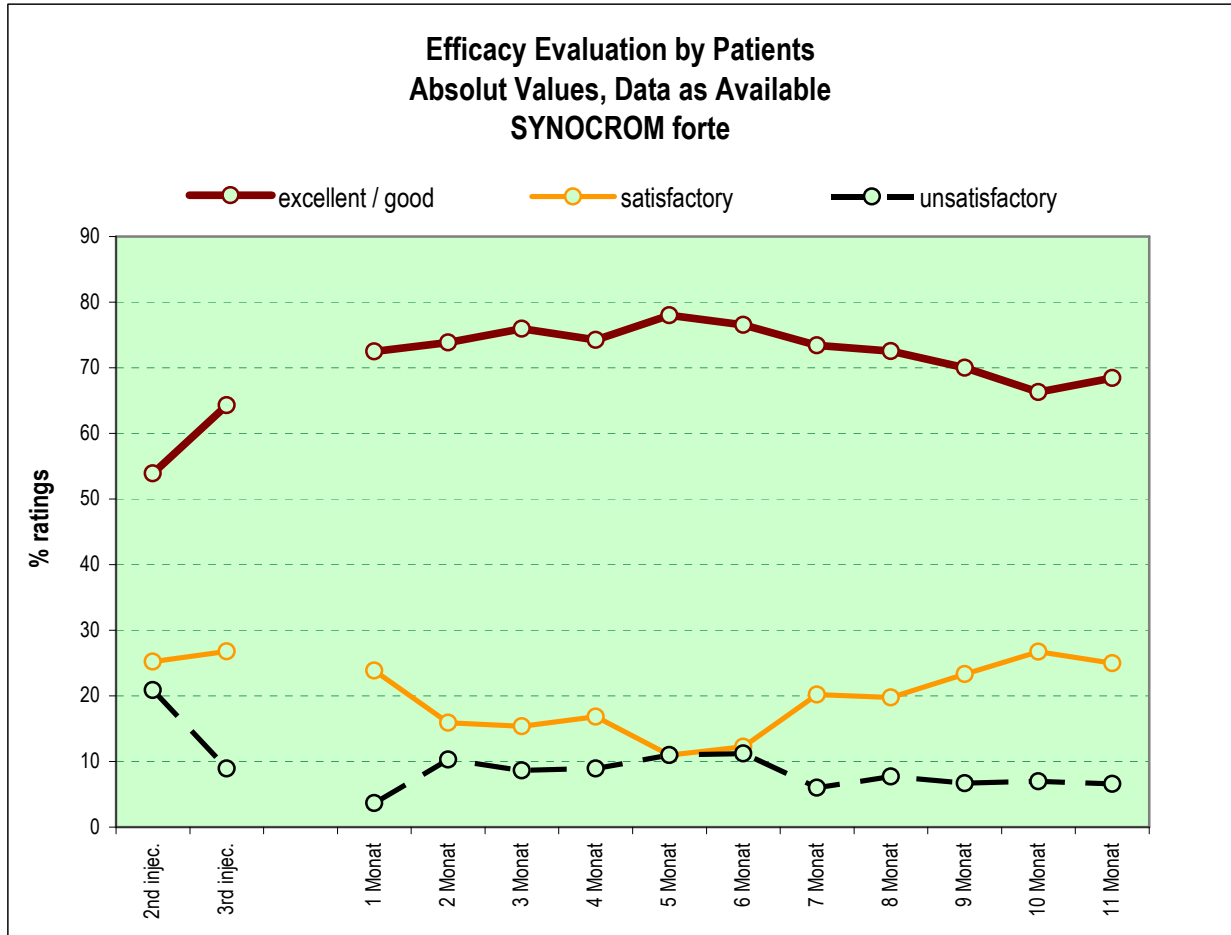


Fig 8: "Very good" and "good" efficacy ratings (%) after the injection therapy

| | |
|-----------------------------------------------------|-------------------------------|
| 2nd injection/1st week | SYNOCROM® forte N= (%) |
| Very good | 5 (4.35) |
| Good | 57 (49.57) |
| Satisfactory | 29 (25.22) |
| Unsatisfactory | 24 (20.87) |
| 3rd injection/2st week | SYNOCROM® forte N= (%) |
| Very good | 18 (16.07) |
| Good | 54 (48.21) |
| Satisfactory | 30 (26.79) |
| Unsatisfactory | 10 (8.93) |
| 1st month after the therapy | SYNOCROM® forte N= (%) |
| Very good | 21 (19.27) |
| Good | 58 (53.21) |
| Satisfactory | 26 (23.85) |
| Unsatisfactory | 4 (3.67) |
| N= | 109 |
| 2nd month after the therapy | |
| Very good | 24 (22.43) |
| Good | 55 (51.4) |
| Satisfactory | 17 (15.89) |
| Unsatisfactory | 11 (10.28) |
| N= | 107 |
| 3rd month after the therapy | |
| Very good | 26 (25) |
| Good | 53 (50.96) |
| Satisfactory | 16 (15.38) |
| Unsatisfactory | 9 (8.65) |
| N= | 104 |
| 4th month after the therapy | |
| Very good | 30 (29.70) |
| Good | 45 (44.55) |
| Satisfactory | 17 (16.83) |
| Unsatisfactory | 9 (8.91) |
| N= | 101 |
| 5th month after the therapy | |
| Very good | 31 (31.0) |
| Good | 47 (47) |
| Satisfactory | 11 (11) |
| Unsatisfactory | 11 (11) |
| N= | 100 |

| 6th month after the therapy | | SYNOCROM® forte N= (%) |
|------------------------------------------------|--|-------------------------------|
| Very good | | 28 (28.57) |
| Good | | 47 (47.96) |
| Satisfactory | | 12 (12.24) |
| Unsatisfactory | | 11 (11.22) |
| N= | | 98 |
| 7th month after the therapy | | |
| Very good | | 28 (29.79) |
| Good | | 41 (43.62) |
| Satisfactory | | 19 (20.21) |
| Unsatisfactory | | 6 (6.38) |
| N= | | 94 |
| 8th month after the therapy | | |
| Very good | | 25 (27.47) |
| Good | | 41 (45.05) |
| Satisfactory | | 18 (19.78) |
| Unsatisfactory | | 7 (7.69) |
| N= | | 91 |
| 9th month after the therapy | | |
| Very good | | 27 (30) |
| Good | | 36 (40) |
| Satisfactory | | 21 (23.33) |
| Unsatisfactory | | 6 (6.67) |
| N= | | 90 |
| 10th month after the therapy | | |
| Very good | | 27 (31.4) |
| Good | | 30 (34.88) |
| Satisfactory | | 23 (26.74) |
| Unsatisfactory | | 6 (6.98) |
| N= | | 86 |
| 11th month after the therapy | | |
| Very good | | 26 (34.21) |
| Good | | 26 (34.21) |
| Satisfactory | | 19 (25.0) |
| Unsatisfactory | | 5 (6.58) |
| N= | | 76 |

Table 17: Efficacy (assessed on the basis of the patient diary) after the therapy

Side effects – swelling

There are no reports of any side effects, either active-substance-related events or non-active-substance-related events

Swelling occurred in only rare cases during the treatment. 8 cases of swelling were reported (7.7%) in all; none of them were rated as severe.

In all, only 4 cases of swelling (3.8%), rated as “moderate”, were treated by the doctor.

Data are available on the intensity of the swelling in 7 cases and on the associated measures in 6.

In 2 cases of swelling in knees treated with **SYNOCROM® forte**, the intensity was “mild”, and in 5 cases it was “moderate”.

Swelling **SYNOCROM® forte**

| Score | Intensity of swelling |
|-----------|-----------------------|
| Mild | 2 |
| Moderate | 5 |
| Severe | -- |
| Valid No. | 7 |

Total N=115

| Score | Intensity of swelling |
|----------|-----------------------|
| Mild | 28.57% |
| Moderate | 71.43% |
| Severe | -- |

Table 18: Severity of the swelling that occurred during the therapy

The following table shows the patients with swelling, the intensity of the swelling, and the measures taken.

Swelling **SYNOCROM® forte**

| Intensity: 1 = mild, 2 = moderate, 3 = severe | | |
|-----------------------------------------------|-----------|----------------------------|
| Swelling case 1 | Intensity | Measure |
| 1 | 1 | None |
| 1 | 1 | Monitoring only |
| 1 | 2 | Voltaren rapid |
| 1 | -- | -- |
| 1 | 2 | -- |
| 1 | 2 | Drainage of 26 ml on 10.08 |
| 1 | 2 | Cryotherapy |
| 1 | 2 | Cryotherapy |

Table 19: Intensity of swelling, and measures taken, in each patient during treatment with **SYNOCROM® forte**

To sum up, an overview of the swelling that occurred:

Swelling **SYNOCROM® forte**

| Score | Swelling |
|-----------|----------|
| Yes | 8 |
| No | 96 |
| Valid No. | 104 |

Total N=115

| Score | Swelling |
|-------|----------|
| Yes | 7.69% |
| No | 92.31% |

Table 20: Number of swelling cases that occurred during the therapy

Additional medication for the treatment of gonarthritits

A little over a third of the patients (35.2%) whose joints were treated with **SYNOCROM® forte** used additional medication to treat their gonarthritits.

Therapy in addition to **SYNOCROM® forte**

| Score | Additional therapy Additional the. |
|-----------|---------------------------------------|
| Yes | 37 |
| No | 68 |
| Missing | 10 |
| Valid No. | 105 |

Total N=115

| Score | Additional therapy Additional the. |
|-------|---------------------------------------|
| Yes | 35.24% |
| No | 64.76% |

Table 21: Number of patients using additional therapy

The additional medication is principally pain therapy, such as Seractil, Voltaren, or suchlike. More details can be found in the following overview table. The information shown about additional therapy is as reported by the investigating physicians.

Additional medication **SYNOCROM® forte**

| Additional therapy | |
|--------------------|-----------------------------------------|
| 1=Yes | |
| 1 | NSAID (Xefo 8 mg or Parkemed 500 mg |
| 1 | Condrosulf |
| 1 | Parkemed 500 mg 1x1 |
| 1 | Voltaren 50 |
| 1 | Voltaren, Traumel |
| 1 | Voltaren |
| 1 | Condrosulf 800 mg |
| 1 | Condrosulf 800 mg tabs. |
| 1 | Condrosulf 800 mg tablets |
| 1 | Arthotec forte 1x1 |
| 1 | Diclac rapid as required |
| 1 | Proxen as required |
| 1 | Voltaren rapid |
| 1 | Condrosulf |
| 1 | Deflamat 75, Deflamat 100 |
| 1 | Voltaren at the start |
| 1 | Tramabene 100 mg |
| 1 | Chondroitin sulfate 800 mg 1x1/3 months |
| 1 | Chondroitin sulfate p.o. |
| 1 | Xefo 8 mg |
| 1 | Serectil 400 pain therapy |
| 1 | Diclobene |
| 1 | Xyloneural |
| 1 | Deflamat 75 mg |
| 1 | Xefo 8 mg |
| 1 | Deflamat 75 mg |
| 1 | Xefo |
| 1 | Tramal, Deflamat |
| 1 | Deflamat as required |
| 1 | 1x1 Deflamat 75 |
| 1 | Xefo 8 mg 2x1 |
| 1 | Xefo 8 mg |
| 1 | Diclofenac |
| 1 | Seractil |
| 1 | Parkemed |
| 1 | Seractil 400 mg 3x1 |

Table 22: Prescribed additional therapy, per patient

Additional pain therapy

Painkillers during the therapy

The following table shows very clearly that over a third of the patients receive additional pain therapy at the start of the treatment with **SYNOCROM® forte**. By the 3rd injection, the number of patients taking a product to relieve pain in the knee joint decreases.

Additional painkillers **SYNOCROM® forte**

| Score | Painkillers | | |
|------------------|------------------------------|------------------------------|------------------------------|
| | 1 st Add.pain.th. | 2 nd Add.pain.th. | 3 rd Add.pain.th. |
| Yes, painkillers | 39 | 40 | 35 |
| No | 75 | 75 | 79 |
| Missing | 1 | -- | 1 |
| Valid No. | 114 | 115 | 114 |

| Score | Painkillers | | |
|------------------|------------------------------|------------------------------|------------------------------|
| | 1 st Add.pain.th. | 2 nd Add.pain.th. | 3 rd Add.pain.th. |
| Yes, painkillers | 34.21% | 34.78% | 30.70% |
| No | 65.79% | 65.22% | 69.30% |

Total N=115

Table 23: Use of painkillers during the treatment with **SYNOCROM® forte**

Painkillers after the therapy

There is a discernible trend towards a decrease in the number of patients taking a painkiller after the injection therapy. It still fluctuates between 25 and 30%.

Additional painkillers **SYNOCROM® forte**

| Painkillers, months after the therapy | | | | | |
|---------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Score | 1M Add.pain.th. | 2M Add.pain.th. | 3M Add.pain.th. | 4M Add.pain.th. | 5M Add.pain.th. |
| Yes | 20 | 29 | 26 | 26 | 27 |
| No | 60 | 79 | 79 | 77 | 74 |
| Missing | 7 | 7 | 10 | 12 | 14 |
| Valid No. | 108 | 108 | 105 | 103 | 101 |

| Painkillers, months after the therapy | | | | | |
|---------------------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| Score | 1M Add.pain.th | 2M Add.pain.th. | 3M Add.pain.th. | 4M Add.pain.th. | 5M Add.pain.th. |
| Yes | 25.93% | 26.85% | 24.76% | 25.24% | 26.73% |
| No | 74.07% | 73.15% | 75.24% | 74.76% | 73.27% |

Additional painkillers **SYNOCROM® forte**

| Painkillers, months after the therapy | | | | | | |
|---------------------------------------|--------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| Score | 6M Add.pain.th. | 7M Add.pain.th | 8M Add.pain.th | 9M Add.pain.th | 10M Add.pain.th | 11M Add.pain.th |
| Yes | 27 | 26 | 20 | 22 | 26 | 20 |
| No | 73 | 71 | 74 | 69 | 63 | 59 |
| Missing | 15 | 18 | 21 | 24 | 26 | 36 |
| Valid No. | 100 | 97 | 94 | 91 | 89 | 79 |

| Painkillers, months after the therapy | | | | | | |
|---------------------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Score | 6M Add.pain.th | 7M Add.pain.th. | 8M Add.pain.th. | 9M Add.pain.th. | 10M Add.pain.th | 11M Add.pain.th |
| Yes | 27.00% | 26.80% | 21.28% | 24.18% | 29.21% | 25.32% |
| No | 73.00% | 73.20% | 78.72% | 75.82% | 70.79% | 74.68% |

Table 24: Use of painkillers after the treatment with **SYNOCROM® forte**