# BTX-NAT CLINICAL STUDY

## DEVICE: Mesojet
## HANDPIECE: 3 NOZZLES HANDPIECE  MSJ-3N
## PRODUCT: TIME 4 JET BTX-NAT

## JET TECH EUROPE S.R.L.

Report no. **1309F04F1**

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## SUMMARY

Scope of this clinical test is to evaluate the cosmetic power of a treatment and its acceptability, in particular we have evaluated :

- the elasticizing power
- the firming power
- the moisturizing power
- the anti-wrinkle power
- the brightening power
- the softening power
  of the treatment.

This test was performed by a professional operator and overseen by a dermatologist, both members of Bio Basic Europe staff : 20 female panellists, with an age between 30 and 60 years were recruited to be submitted to 6 treatments ( twice a week).

During this period specific clinical (skin softness, skin smoothness, skin brightness, skin compactness, macro-wrinkles visibility variation) and instrumental (moisturization, elasticity, compactness, wrinkles depth and surface) parameters have been evaluated.

At the end of the study volunteers self-evaluations have been also taken. The score they gave is according to the VNS scale (0-10 where 0 is the minimum value and 10 the maximum one).

From the results obtained it can be said that the treatment has proved to help in reducing wrinkles visibility.

In particular, after 6 treatments , we obtained the following results:

- Skin elasticity improves of 18%
- Skin compactness improves of 19% after
- Skin moisturization improves of 14%
- Wrinkles depth decreases of 11%
- Wrinkles VOLUME decreases of 21%
- Skin brightness improves in the 100% of the panelists
- Visibility of macro-wrinkles decreases in the 77.7% of the panelists
- Skin softness improves in the 77.7% of the panelists
- Very good acceptability

## EXPERIMENTAL PART

Report no. **1309F04F1**

### Title

Evaluation of the anti-wrinkles power of a professional cosmetic treatment through a clinical test

### Scope

Through the test one can evaluate if the tested cosmetic treatment  has got any  anti-wrinkles cosmetic power.

### Contract information

- Technical report performed by BIO BASIC EUROPE s.r.l. and  Università degli Studi di Pavia.
- Final technical report written by BIO BASIC EUROPE s.r.l. on behalf of JET TECH EUROPE S.R.L.

**Sponsor**

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**Test subjects**

20* female subjects, with an age between 30 and 60 years, have been selected for the test, following the undermentioned inclusion criteria:

- - good state of general health
- no dermatopathies
- no pharmacological treatment in progress
- promise not to change the usual daily routine

**Drop out**

1. **Volunteer n. 6:**
   **She stopped the test at the third treatment for reasons unrelated to the treatment**

2. **Volunteer n. 12:**
   **She stopped the test at the fifth treatment for reasons unrelated to the treatment**

## METHOD OF EXECUTION

The whole treatment is carried out from a professional esthetician : volunteers are exposed to a treatment in cabin twice per week, for a total of 6 treatments.

PROCEDURE FOR EACH TREATMENT

1)      Remove make-up
2)      Prepare face skin
Device: Mesojet
Handpiece: 3 Nozzles handpiece MSJ-3N
Product applied: physiological saline (sodium chloride  0,9%)
Duration: 11 minutes
Carry out an accurate  dermabrasion of the face  accelerating the physiological saline micronized  drops with the device. Keep the device at a 2 cm distance from the face skin and with an inclination  between 45 and  90 degrees.
3)      Transdermal and painless vehiculation of the 10% BTX - NAT solution
Device: Mesojet
Handpiece: 3 Nozzles handpiece MSJ-3N
Product applied: Time 4 Jet BTX - NAT
Duration: 9 minutes
Vehiculate the BTX - NAT solution  accelerating the BTX - NAT solution micronized  drops  with the device. Keep the device at a 0.5-1 cm distance from the face skin and with an inclination  between 45 and  90 degrees.

## FORMULA

AQUA, ACETYL HEXAPEPTIDE-3,  BETAINE,  SODIUM HYALURONATE, CITRIC ACID, SODIUM CITRATE, BENZOIC ACID,  DEHYDROACETIC ACID

# EXECUTION OF THE TEST

## INSTRUMENTAL PARAMETERS

- **Skin elasticity and skin compactness\*** measurement are taken with the **elastometer CUTOMETER® – MPA 580**

\* Skin elasticity was measured with CutometerÒ. Before the test, it was necessary to standardize the measuring technique, of the level (maximum 500 mBar) and of the time of suction, with subsequent release, as well as the number of repeated measurements in the same test area (maximum 9). For this research, a suction cycle of 1 second at 500 mBar followed by a releasing cycle of one second was selected.
Regarding the elastometric measurement, the skin surface was aspirated from the depression induced by the machine into the aperture of the elastometer's measuring probe.
Depth of skin penetration inside the probe was measured by an optic sensor.
Linkage to a PC allowed the data obtained to be displayed, stored and printed. Cutaneous elasticity reflects the skin's potential capacity (measured in mm) for retraction.
A graph shows the deformation curve of skin undergoing aspiration, and includes two components (see the figure).

- An elastic component ($U_e$), which corresponds to the part of the curve that rises rapidly, and is reversible to the deformation;
- A plastic component ($U_v$), which corresponds to the part of the curve that rises slowly and is not completely reversible to the deformation.

- The total distension of the skin obtained at the end of an aspiration cycle is defined as skin extensibility **($U_f$=R0): this parameter is a skin compactness index**

- During the releasing phase, the quantity of deformation remaining in the skin can be observed ($U_a$-$U_r$=residual deformation).
**Cutaneous elasticity is defined as the ratio:**

o **Elasticity= $U_a/U_f$ (R2)**

Which represents the recovery degree of the maximum deformation reached, whose values range between 0 and 1 (maximum elasticity).

- Skin **moisturization\*\*** is measured with CORNEOMETER® CM 850

\*\*Corneometry measures the electric capacity of the skin surface that is related to skin moisture: indeed both electric capacity and the conductance of biological tissue change according to the water content, i.e. they increase if the water content increases.
This instrument translates the electrical parameters in moisturization units (scale: 0÷130)

- **Wrinkles surface,depth,volume** *** studied with VisoFace Quick ® and elaborated with and elaborated with Skin Surface Analyzer SSA***

  ***Wrinkle surface (mm2) of the wrinkle
  Wrinkles depth (AU) of the wrinkle
  Wrinkle Volume (mm2xAU) of the wrinkle

## CLINICAL PARAMETERS

- Skin softness
- Skin smoothness
- Skin compactness
- Skin brightness
- Macro-Wrinkles variation

The readings are taken:

- at [t0] (basal value): before the first treatment
- at [t1]: first treatment
- at [t3]: third treatment
- at [t6]: sixth treatment

The readings are taken by the experimenter in the medical studio, then analysed and reported in a graph.

## SELF-EVALUATION:

Volunteers opinions are also taken at the end of the last treatment[t6].
This self-evaluation was performed according to VNS scale where 0 is the minimum value and 10 is the maximum one.

| Elasticità cutanea Skin elasticity | | | | |
|---|---|---|---|---|
| Rif. Vol Vol. ref | t0 | t 1st treatment | t 3rd treatment | t 6th treatment |
| 1 | 0,430 | 0,675 | 0,657 | 0,681 |
| 2 | 0,624 | 0,500 | 0,643 | 0,708 |
| 3 | 0,579 | 0,598 | 0,787 | 0,788 |
| 4 | 0,605 | 0,659 | 0,692 | 0,685 |
| 5 | 0,591 | 0,471 | 0,585 | 0,606 |
| 7 | 0,612 | 0,672 | 0,663 | 0,682 |
| 8 | 0,756 | 0,800 | 0,782 | 0,763 |
| 9 | 0,625 | 0,684 | 0,761 | 0,745 |
| 10 | 0,724 | 0,783 | 0,772 | 0,787 |
| 11 | 0,463 | 0,586 | 0,563 | 0,610 |
| 13 | 0,460 | 0,514 | 0,538 | 0,590 |
| 14 | 0,703 | 0,707 | 0,715 | 0,745 |
| 15 | 0,706 | 0,725 | 0,791 | 0,841 |
| 16 | 0,607 | 0,693 | 0,658 | 0,670 |
| 17 | 0,483 | 0,576 | 0,606 | 0,618 |
| 18 | 0,541 | 0,591 | 0,601 | 0,620 |
| 19 | 0,514 | 0,553 | 0,562 | 0,579 |
| 20 | 0,415 | 0,418 | 0,439 | 0,551 |
| Media Average | 0,580 | 0,623 | 0,656 | 0,682 |
| Dev. STD | 0,103513501 | 0,106248181 | 0,099905398 | 0,083378302 |
| Test t student | sign 95% (val. est. +2,110) | 1,220170026 | 2,251812815 | 3,246382555 |
| | | NO | YES | YES |

Skin elasticity improves of 18% after 6th treatments (statistically significant)

| Compattezza cutanea *Skin compactness* | | | | |
|---|---|---|---|---|
| Rif. Vol *Vol. ref* | t0 | t 1st treatment | t 3rd treatment | t 6th treatment |
| 1 | 0,228 | 0,197 | 0,187 | 0,160 |
| 2 | 0,201 | 0,195 | 0,184 | 0,157 |
| 3 | 0,291 | 0,285 | 0,267 | 0,254 |
| 4 | 0,223 | 0,202 | 0,190 | 0,145 |
| 5 | 0,255 | 0,261 | 0,223 | 0,236 |
| 7 | 0,186 | 0,157 | 0,140 | 0,118 |
| 8 | 0,131 | 0,152 | 0,124 | 0,118 |
| 9 | 0,255 | 0,209 | 0,211 | 0,223 |
| 10 | 0,195 | 0,191 | 0,185 | 0,141 |
| 11 | 0,241 | 0,228 | 0,225 | 0,199 |
| 13 | 0,197 | 0,201 | 0,163 | 0,153 |
| 14 | 0,185 | 0,171 | 0,180 | 0,165 |
| 15 | 0,198 | 0,182 | 0,180 | 0,161 |
| 16 | 0,282 | 0,251 | 0,263 | 0,266 |
| 17 | 0,393 | 0,382 | 0,324 | 0,332 |
| 18 | 0,179 | 0,151 | 0,138 | 0,145 |
| 19 | 0,258 | 0,246 | 0,221 | 0,217 |
| 20 | 0,287 | 0,294 | 0,294 | 0,183 |
| Media *Average* | 0,233 | 0,220 | 0,206 | 0,187 |
| Dev. STD | 0,05885201 | 0,05907404 | 0,05422204 | 0,05719948 |
| Test t student | sign 95% (val. est. +-2,110) | -0,6501238 | -1,43149 | -2,3320616 |
| | | NO | NO | YES |

Skin compactness improves of 19% after 6th treatments (statistically significant)

| | | Skin moisturization | | |
|---|---|---|---|---|
| Vol. ref | t0 | t 1st treatment | t 3rd treatment | t 6th treatment |
| 1 | 52,300 | 54,400 | 51,800 | 58,800 |
| 2 | 49,900 | 54,600 | 57,200 | 58,600 |
| 3 | 50,300 | 59,400 | 56,900 | 58,100 |
| 4 | 46,600 | 49,400 | 53,200 | 55,100 |
| 5 | 61,900 | 70,300 | 65,700 | 67,500 |
| 7 | 46,800 | 55,600 | 54,200 | 58,100 |
| 8 | 55,800 | 64,400 | 65,800 | 60,700 |
| 9 | 56,800 | 60,500 | 65,000 | 59,100 |
| 10 | 53,100 | 63,800 | 62,400 | 60,600 |
| 11 | 57,300 | 64,400 | 67,000 | 70,500 |
| 13 | 57,200 | 63,300 | 68,400 | 64,600 |
| 14 | 39,800 | 43,500 | 44,100 | 48,500 |
| 15 | 48,400 | 50,100 | 53,200 | 56,100 |
| 16 | 46,000 | 58,300 | 57,200 | 58,100 |
| 17 | 49,400 | 46,800 | 53,200 | 52,000 |
| 18 | 48,100 | 53,900 | 59,800 | 50,200 |
| 19 | 46,300 | 50,100 | 52,700 | 52,900 |
| 20 | 52,500 | 53,500 | 52,700 | 55,100 |
| Average | 51,028 | 56,461 | 57,806 | 58,033 |
| Dev. STD | 5,373771329 | 7,122552326 | 6,660195389 | 5,635287977 |
| Test t student | sign 95% (val. est. +-2,110) | 2,583591114 | 3,360178852 | 3,81699088 |
| | | YES | yes | yes |

Skin moisturization  improves of  14%  after 6 treatments (statistically significant)

| | | PROFONDITA' DELLE RUGHE - WRINKLES DEPTH(au) | | |
|---|---|---|---|---|

| Rif. Vol *Vol. ref* | t0 | t 1st treatment | t 3rd treatment | t 6th treatment |
|---|---|---|---|---|
| 1 | 16,190 | 16,082 | 15,336 | 14,440 |
| 2 | 14,420 | 13,930 | 13,170 | 11,250 |
| 3 | 15,260 | 15,020 | 14,820 | 13,850 |
| 4 | 13,240 | 13,005 | 12,180 | 12,250 |
| 5 | 15,950 | 15,620 | 14,600 | 14,514 |
| 7 | 11,580 | 11,320 | 11,080 | 9,780 |
| 8 | 14,530 | 14,310 | 12,910 | 12,780 |
| 9 | 17,950 | 17,620 | 16,600 | 16,514 |
| 10 | 13,560 | 13,330 | 13,240 | 13,010 |
| 11 | 13,120 | 12,740 | 12,050 | 11,420 |
| 13 | 14,940 | 14,610 | 13,860 | 11,950 |
| 14 | 11,030 | 10,750 | 10,850 | 10,910 |
| 15 | 11,530 | 11,260 | 11,040 | 10,750 |
| 16 | 12,930 | 12,540 | 12,170 | 12,050 |
| 17 | 14,180 | 12,850 | 12,780 | 12,662 |
| 18 | 11,580 | 10,990 | 10,600 | 10,100 |
| 19 | 12,200 | 11,680 | 11,870 | 11,620 |
| 20 | 11,270 | 11,170 | 11,070 | 9,620 |
| Media *Average* | 13,637 | 13,268 | 12,790 | 12,193 |
| Dev. STD | 1,952431365 | 1,972175695 | 1,707366634 | 1,807411166 |
| Test t student | sign 95% (val. est. +-2,110) | -0,563361373 | -1,384408031 | -2,302462454 |
| | | NO | no | si/yes |

Wrinkles depth decreases of 11% after 6 treatments (statistically significant)

| VOLUME DELLE RUGHE - WRINKLES VOLUME (aux mm2) | | | |
|---|---|---|---|
| Panellist code | t0 | t1 | t3 | t6 |
| 1 | 0,44 | 0,49 | 0,44 | 0,34 |
| 2 | 0,44 | 0,39 | 0,34 | 0,27 |
| 3 | 0,65 | 0,60 | 0,59 | 0,53 |
| 4 | 0,50 | 0,49 | 0,43 | 0,43 |
| 5 | 0,55 | 0,55 | 0,49 | 0,45 |
| 7 | 0,45 | 0,42 | 0,39 | 0,32 |
| 8 | 0,56 | 0,55 | 0,43 | 0,41 |
| 9 | 0,88 | 0,87 | 0,77 | 0,73 |
| 10 | 0,67 | 0,62 | 0,59 | 0,57 |
| 11 | 0,46 | 0,43 | 0,38 | 0,33 |
| 13 | 0,70 | 0,65 | 0,59 | 0,47 |
| 14 | 0,56 | 0,53 | 0,50 | 0,48 |
| 15 | 0,49 | 0,44 | 0,42 | 0,42 |
| 16 | 0,76 | 0,67 | 0,61 | 0,62 |
| 17 | 0,85 | 0,77 | 0,72 | 0,69 |
| 18 | 0,51 | 0,48 | 0,45 | 0,41 |
| 19 | 0,41 | 0,39 | 0,35 | 0,32 |
| 20 | 0,45 | 0,44 | 0,38 | 0,33 |
| Media Average | 0,574 | 0,542 | 0,493 | 0,451 |
| Dev. STD | 0,143911 | 0,132358 | 0,124809 | 0,131855 |
| Test t student | sign 95% (val. est. +-2,110) | -0,69625 | -1,80469 | -2,67133 |
| | | NO | no | yes |

Wrinkles volume  decreases of 21%  after 6 treatments ( statistically significant)

| Compattezza cutanea | | Skin compactness | | |
|---|---|---|---|---|
| Panellist code | t0 | t1 - 1st treatment | t3 - 3rd treatment | t6 - 6th treatment |
| 1 | Insufflciente/Insufficient | Insufflciente/Insufficient | Sufficiente/Sufficient | Discreto/Fairly good |
| 2 | Discreto/Fairly good | Discreto/Fairly good | Discreto/Fairly good | Buono/Good |
| 3 | Discreto/Fairly good | Discreto/Fairly good | Discreto/Fairly good | Discreto/Fairly good |
| 4 | Discreto/Fairly good | Discreto/Fairly good | Buono/Good | Ottimo/very good |
| 5 | Sufficiente/Sufficient | Sufficiente/Sufficient | Discreto/Fairly good | Discreto/Fairly good |
| 7 | Discreto/Fairly good | Discreto/Fairly good | Buono/Good | Buono/Good |
| 8 | Discreto/Fairly good | Discreto/Fairly good | Discreto/Fairly good | Discreto/Fairly good |
| 9 | Sufficiente/Sufficient | Discreto/Fairly good | Buono/Good | Buono/Good |
| 10 | Discreto/Fairly good | Discreto/Fairly good | Discreto/Fairly good | Buono/Good |
| 11 | Sufficiente/Sufficient | Sufficiente/Sufficient | Discreto/Fairly good | Buono/Good |
| 13 | Sufficiente/Sufficient | Sufficiente/Sufficient | Buono/Good | Buono/Good |
| 14 | Discreto/Fairly good | Discreto/Fairly good | Discreto/Fairly good | Discreto/Fairly good |
| 15 | Discreto/Fairly good | Discreto/Fairly good | Discreto/Fairly good | Ottimo/very good |
| 16 | Sufficiente/Sufficient | Sufficiente/Sufficient | Sufficiente/Sufficient | Sufficiente/Sufficient |
| 17 | Insufflciente/Insufficient | Sufficiente/Sufficient | Discreto/Fairly good | Discreto/Fairly good |
| 18 | Sufficiente/Sufficient | Sufficiente/Sufficient | Buono/Good | Buono/Good |
| 19 | Sufficiente/Sufficient | Sufficiente/Sufficient | Buono/Good | Buono/Good |
| 20 | Insufflciente/Insufficient | Insufflciente/Insufficient | Insufflciente/Insufficient | Buono/Good |

| STATISTICAL ANALISYS |
|---|
| The Friedman Test allows the statistical analysis of non parametric data. (Cosmetic news, 130, January/February (30-32). A score between 1-5 is given to the experimenter evaluations (Insufficient, Sufficient, Fairly good, Good, Very good). For each period average values are calculated. The test is significant if the average differences are bigger than the threshold value (Interval Confidence 95%) |

| ANALISI STATISTICA |
|---|
| Per la valutazione statistica di dati non parametrici (scores) non indipendenti si è utilizzato il Test di Friedman (Cosmetic news, 130, January/February (30-32)). Ad ogni giudizio dello sperimentatore (Insufficiente, Sufficiente, Discreto, Buono, Ottimo) viene assegnato un punteggio da 1 a 5. Per ogni intervallo di tempo si sommano i punteggi attribuiti ad ogni singolo volontario e si calcolano le relative medie. A questo punto si valutano le differenze tra le diverse medie. Le variazioni tra le medie risultano essere significative se superano il valore soglia definito (Intervallo di confidenza 95%). |

| 1,14 | |t1-t0| | |t3-t0| | |t6-t0| |
|---|---|---|---|
| | 0,11 | 0,83 | 1,39 |
| | NO | no | SI'/YES |

Skin compactness improves in the 77.7% of the panellists after the 6 treatment (statistically significant)

| | Luminosità cutanea | Skin brightness | | |
|---|---|---|---|---|
| Panellist code | t0 | t1 - 1st treatment | t3 - 3rd treatment | t6 - 6th treatment |
| 1 | Leggera/Slight | Discreta/Fairly good | Discreta/Fairly good | Buona/Good |
| 2 | Leggera/Slight | Discreta/Fairly good | Discreta/Fairly good | Buona/Good |
| 3 | Discreta/Fairly good | Buona/Good | Buona/Good | Buona/Good |
| 4 | Leggera/Slight | Discreta/Fairly good | Discreta/Fairly good | Buona/Good |
| 5 | Leggera/Slight | Discreta/Fairly good | Discreta/Fairly good | Buona/Good |
| 7 | Discreta/Fairly good | Discreta/Fairly good | Buona/Good | Ottima/very good |
| 8 | Leggera/Slight | Discreta/Fairly good | Discreta/Fairly good | Buona/Good |
| 9 | Leggera/Slight | Discreta/Fairly good | Discreta/Fairly good | Buona/Good |
| 10 | Leggera/Slight | Discreta/Fairly good | Discreta/Fairly good | Buona/Good |
| 11 | Discreta/Fairly good | Discreta/Fairly good | Buona/Good | Buona/Good |
| 13 | Leggera/Slight | Leggera/Slight | Discreta/Fairly good | Discreta/Fairly good |
| 14 | Leggera/Slight | Leggera/Slight | Discreta/Fairly good | Buona/Good |
| 15 | Nessuna/Absent | Leggera/Slight | Discreta/Fairly good | Discreta/Fairly good |
| 16 | Nessuna/Absent | Leggera/Slight | Leggera/Slight | Leggera/Slight |
| 17 | Leggera/Slight | Discreta/Fairly good | Discreta/Fairly good | Discreta/Fairly good |
| 18 | Leggera/Slight | Discreta/Fairly good | Discreta/Fairly good | Discreta/Fairly good |
| 19 | Nessuna/Absent | Leggera/Slight | Discreta/Fairly good | Discreta/Fairly good |
| 20 | Leggera/Slight | Discreta/Fairly good | Buona/Good | Buona/Good |

| STATISTICAL ANALISYS |
|---|
| The Friedman Test allows the statistical analysis of non parametric data. (Cosmetic news, 130, January/February (30-32). |
| A score between 1-5 is given to the experimenter evaluations (Variation:Absent,Slight, Fairly good, Good, Very good). |
| (to=1)For each period average values are calculated. The test is significant if the average differences are bigger than the |
| threshold value (Interval Confidence 95%) |

| ANALISI STATISTICA |
|---|
| Per la valutazione statistica di dati non parametrici (scores) non indipendenti si è utilizzato il Test di Friedman (Cosmetic |
| news, 130, January/February (30-32)). Ad ogni giudizio dello sperimentatore (Variazione: Nessuna, leggara, Discreta, |
| Buona, Ottima) viene assegnato un punteggio da 1 a 5 . (to=1)  Per ogni intervallo di tempo si sommano i punteggi |
| attribuiti ad ogni singolo volontario e si calcolano le relative medie. A questo punto si valutano le differenze tra le |
| diverse medie. Le variazioni tra le medie risultano essere significative se superano il valore soglia definito (Intervallo di |
| confidenza 95%). |

| 1,14 | |t1-t0| | |t3-t0| | |t6-t0| |
|---|---|---|---|
| | 0,78 | 1,17 | 1,67 |
| | NO | SI'/YES | SI'/YES |

Skin brightness improves in the  100%  of the panellists after the 6 treatment (statistically significant)

| | Variazione della Levigatezza cutanea | | Skin smoothness variation | |
|:---:|:---:|:---:|:---:|:---:|
| Panellist code | t0 | t1 - 1st treatment | t3 - 3rd treatment | t6 - 6th treatment |
| 1 | // | Nessuna/Absent | Leggera/Slight | Leggera/Slight |
| 2 | // | Nessuna/Absent | Leggera/Slight | Discreta/Fairly good |
| 3 | // | Nessuna/Absent | Nessuna/Absent | Leggera/Slight |
| 4 | // | Nessuna/Absent | Leggera/Slight | Leggera/Slight |
| 5 | // | Nessuna/Absent | Leggera/Slight | Leggera/Slight |
| 7 | // | Leggera/Slight | Discreta/Fairly good | Buona/Good |
| 8 | // | Nessuna/Absent | Leggera/Slight | Discreta/Fairly good |
| 9 | // | Nessuna/Absent | Nessuna/Absent | Leggera/Slight |
| 10 | // | Nessuna/Absent | Nessuna/Absent | Nessuna/Absent |
| 11 | // | Leggera/Slight | Leggera/Slight | Leggera/Slight |
| 13 | // | Leggera/Slight | Leggera/Slight | Discreta/Fairly good |
| 14 | // | Nessuna/Absent | Nessuna/Absent | Nessuna/Absent |
| 15 | // | Nessuna/Absent | Leggera/Slight | Discreta/Fairly good |
| 16 | // | Nessuna/Absent | Nessuna/Absent | Nessuna/Absent |
| 17 | // | Nessuna/Absent | Nessuna/Absent | Discreta/Fairly good |
| 18 | // | Nessuna/Absent | Nessuna/Absent | Leggera/Slight |
| 19 | // | Leggera/Slight | Leggera/Slight | Buona/Good |
| 20 | // | Leggera/Slight | Leggera/Slight | Discreta/Fairly good |

| STATISTICAL ANALISYS |
|:---:|
| The Friedman Test allows the statistical analysis of non parametric data. (Cosmetic news, 130, January/February (30-32). A score between 1-5 is given to the experimenter evaluations (Variation:Absent,Slight, Fairly good, Good, Very good). (to=1)For each period average values are calculated. The test is significant if the average differences are bigger than the threshold value (Interval Confidence 95%) |

| ANALISI STATISTICA |
|:---:|
| Per la valutazione statistica di dati non parametrici (scores) non indipendenti si è utilizzato il Test di Friedman (Cosmetic news, 130, January/February (30-32)). Ad ogni giudizio dello sperimentatore (Variazione: Nessuna, leggara, Discreta, Buona, Ottima) viene assegnato un punteggio da 1 a 5 . (to=1)  Per ogni intervallo di tempo si sommano i punteggi attribuiti ad ogni singolo volontario e si calcolano le relative medie. A questo punto si valutano le differenze tra le diverse medie. Le variazioni tra le medie risultano essere significative se superano il valore soglia definito (Intervallo di confidenza 95%). |

| | |t1-t0| | |t3-t0| | |t6-t0| |
|:---:|:---:|:---:|:---:|
| 1,14 | 0,28 | 0,67 | 1,39 |
| | NO | no | SI'/YES |

Skin smoothness improves in the  100%  of the panellists after the 6 treatment (statistically significant)

| | Morbidezza cutanea | Skin softness | | |
|---|---|---|---|---|
| Panellist code | t0 | t1 - 1st treatment | t3 - 3rd treatment | t6 - 6th treatment |
| 1 | Sufficiente/Sufficient | Sufficiente/Sufficient | Buono/Good | Buono/Good |
| 2 | Discreto/Fairly good | Discreto/Fairly good | Buono/Good | Buono/Good |
| 3 | Discreto/Fairly good | Discreto/Fairly good | Discreto/Fairly good | Discreto/Fairly good |
| 4 | Discreto/Fairly good | Discreto/Fairly good | Buono/Good | Buono/Good |
| 5 | Sufficiente/Sufficient | Sufficiente/Sufficient | Discreto/Fairly good | Discreto/Fairly good |
| 7 | Discreto/Fairly good | Discreto/Fairly good | Buono/Good | Buono/Good |
| 8 | Discreto/Fairly good | Discreto/Fairly good | Discreto/Fairly good | Discreto/Fairly good |
| 9 | Discreto/Fairly good | Discreto/Fairly good | Buono/Good | Buono/Good |
| 10 | Discreto/Fairly good | Discreto/Fairly good | Buono/Good | Buono/Good |
| 11 | Sufficiente/Sufficient | Sufficiente/Sufficient | Buono/Good | Buono/Good |
| 13 | Sufficiente/Sufficient | Sufficiente/Sufficient | Buono/Good | Buono/Good |
| 14 | Discreto/Fairly good | Discreto/Fairly good | Discreto/Fairly good | Discreto/Fairly good |
| 15 | Discreto/Fairly good | Discreto/Fairly good | Buono/Good | Buono/Good |
| 16 | Sufficiente/Sufficient | Sufficiente/Sufficient | Sufficiente/Sufficient | Sufficiente/Sufficient |
| 17 | InsuffIciente/Insufficient | InsuffIciente/Insufficient | Sufficiente/Sufficient | Discreto/Fairly good |
| 18 | Sufficiente/Sufficient | Sufficiente/Sufficient | Buono/Good | Buono/Good |
| 19 | Sufficiente/Sufficient | Sufficiente/Sufficient | Discreto/Fairly good | Buono/Good |
| 20 | Sufficiente/Sufficient | Sufficiente/Sufficient | Discreto/Fairly good | Buono/Good |

| STATISTICAL ANALISYS |
|---|
| The Friedman Test allows the statistical analysis of non parametric data. (Cosmetic news, 130, January/February (30-32). A score between 1-5 is given to the experimenter evaluations (Insufficient, Sufficient, Fairly good, Good, Very good). For each period average values are calculated. The test is significant if the average differences are bigger than the threshold value (Interval Confidence 95%) |
| ANALISI STATISTICA |
| Per la valutazione statistica di dati non parametrici (scores) non indipendenti si è utilizzato il Test di Friedman (Cosmetic news, 130, January/February (30-32)). Ad ogni giudizio dello sperimentatore (Insufficiente, Sufficiente, Discreto, Buono, Ottimo) viene assegnato un punteggio da 1 a 5. Per ogni intervallo di tempo si sommano i punteggi attribuiti ad ogni singolo volontario e si calcolano le relative medie. A questo punto si valutano le differenze tra le diverse medie. Le variazioni tra le medie risultano essere significative se superano il valore soglia definito (Intervallo di confidenza 95%). |

| 1,14 | |t1-t0| | |t3-t0| | |t6-t0| |
|---|---|---|---|
| | 0,00 | 1,00 | 1,17 |
| | no | no | si/yes |

Skin softness improves in the

77.7 % of the panellists after the 6 treatment (statistically significant)

According to the obtained results we can state that the treatment :

# DEVICE: Mesojet
# HANDPIECE: 3 NOZZLES HANDPIECE  MSJ-3N
# PRODUCT: TIME 4 JET BTX-NAT

can change in the period of treatment the instrumental  and clinical parameters evaluated on the volunteers who underwent the clinical test. From the results obtained it can be said that the treatment has proved to help in reducing wrinkles visibility.

In particular, after 6 treatments:

Skin elasticity  improves of  18%
- Skin compactness  improves of  19%  after
- Skin moisturization  improves of  14%
- Wrinkles depth  decreases of 11%
- Wrinkles VOLUME  decreases of 21%
- Skin brightness improves in the 100% of the panelists
- Visibility of macro-wrinkles decreases in the 77.7% of the panelists
- Skin softness improves in the 77.7% of the panelists
- Very good acceptability

| Experimenter | Monitor |
|---|---|
| Dr. Fernando Marco BIANCHI | Prof. Plinio RICHELMI |

Quality Control

Dott. Claudio ANGELINETTA

Enclosure A : recruitment