

THE USE OF BOTULINUM TOXIN IN MEDICINE

DR EZIO COSTA MD-DDS

ACADEMYEZIOCOSTA

DILUTION

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DILUTION

Vistabex
50/100 Units of botulinum toxin

Dilution:
50U: 1 ml sodium chloride 0,9%
100U: 2 ml sodium chloride 0,9%

Injection with:
0,5 ml insuline syringe = **25 U**
needle 30G x 8mm
one notch or line = 0,01 ml

After dilution 1 ml/50U or 2 ml/100U:
2 notches or lines = 0,02 ml = 1 U

Vistabex Microbotox
50/100 Units of botulinum toxin

Dilution:
50U: 2,5 ml sodium chloride 0,9%
100U: 5 ml sodium chloride 0,9%

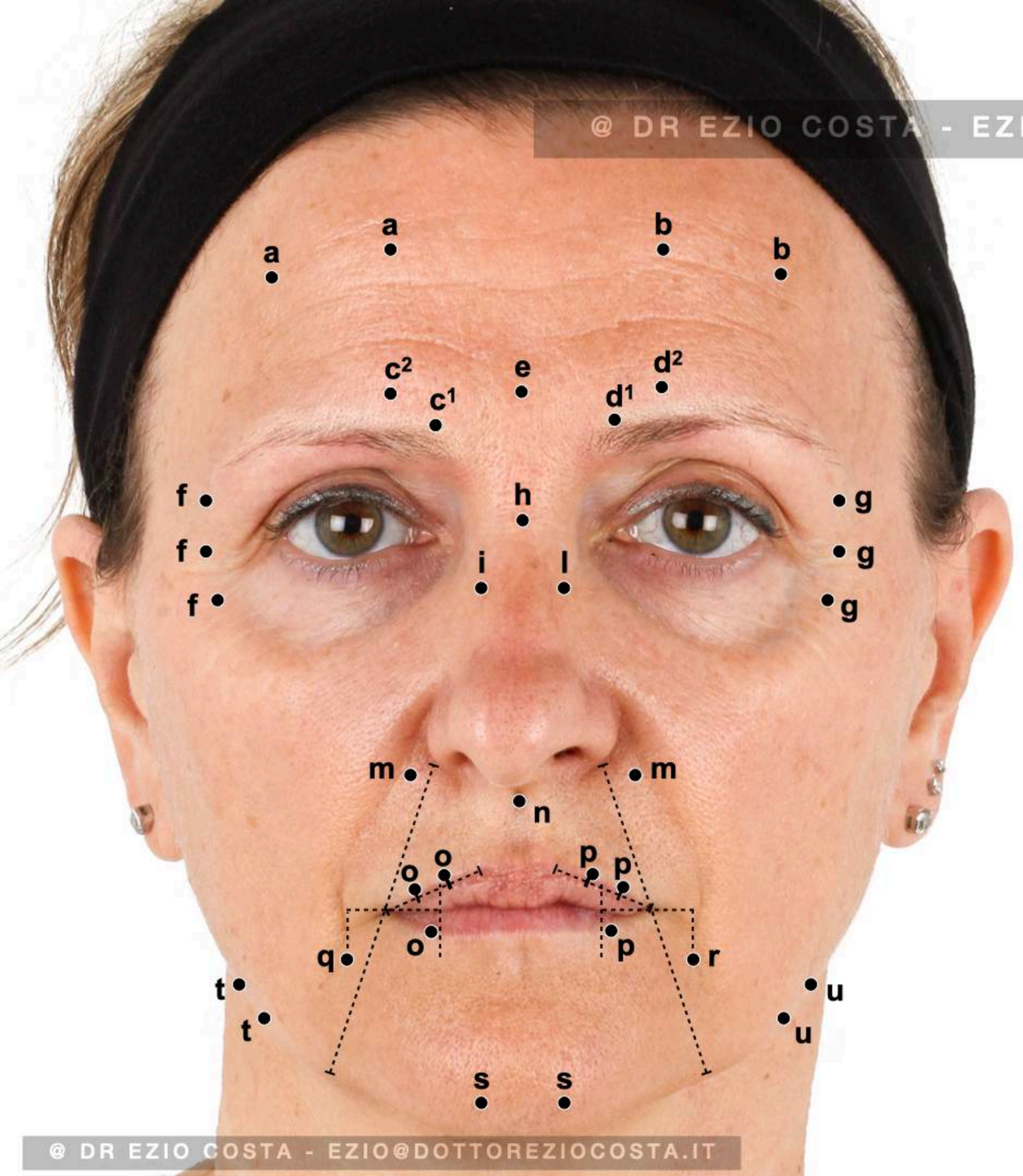
Injection with:
0,5 ml insuline syringe = **10 U**
needle 30G x 8mm
one notch or line = 0,01 ml

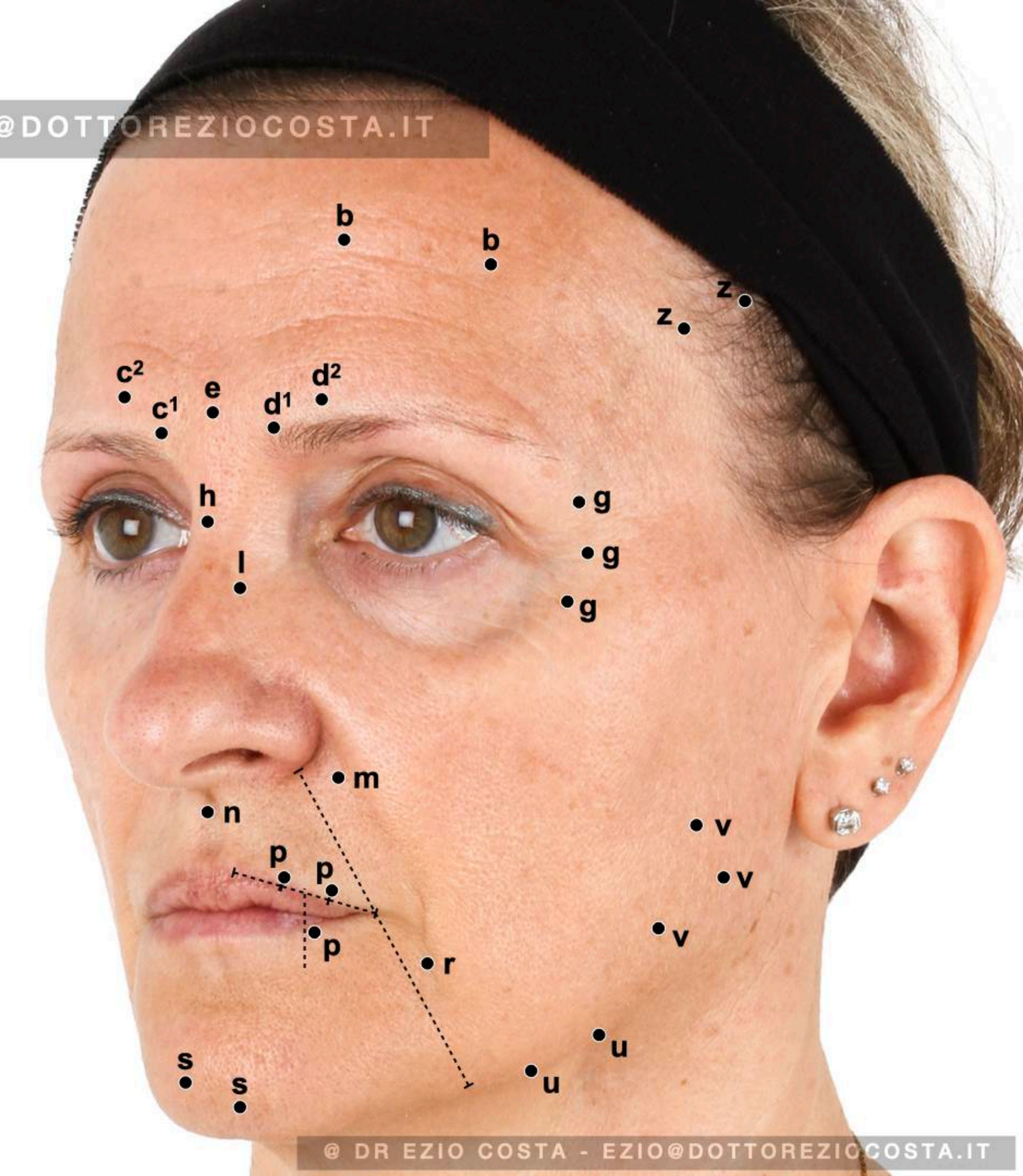
After dilution 2,5 ml/50U or 5 ml/100U::
1 notche or line = 0,01 ml = 0,2 U

INJECTION POINTS AND DOSAGES

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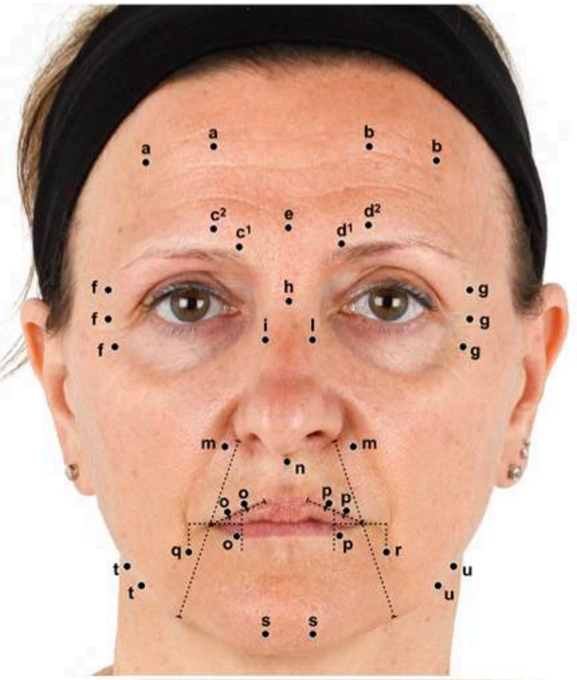
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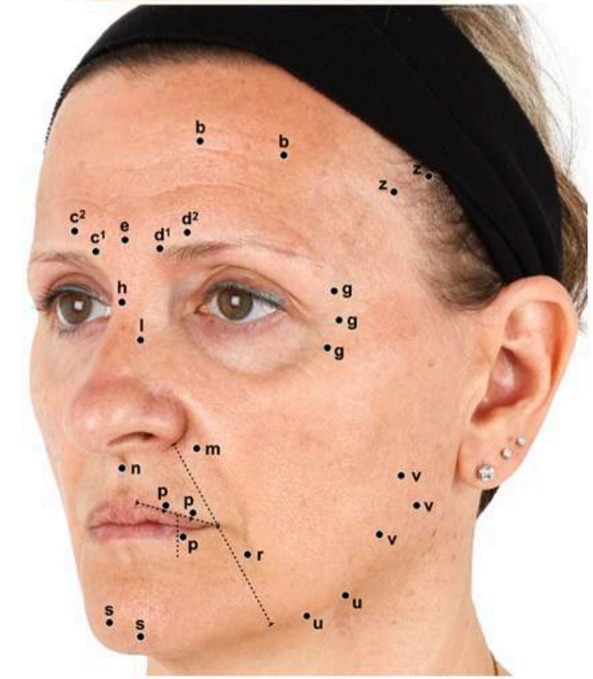




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Injection points and dosages

The dosages proposed here are conservative minimum doses to start treating these areas safely. Dosages can then be customized according to the trophism of the muscle and its activity.

a



1U
2,5Sp

Very superficial (S) injection, at an angle of about 10° (10), introducing only the tip of the needle with the flute-beak pointing upward (UP). Inoculate 1 U Vistabex or 2.5 Speywood units per point with **outward direction** (right patient).

b



1U
2,5Sp

Very superficial (S) injection, at an angle of about 10° (10), introducing only the tip of the needle with the flute-beak pointing upward (UP). Inoculate 1 U Vistabex or 2.5 Speywood units per point with **outward direction** (left patient).

c^1



2U
5Sp

Medium depth (M) injection, at an angle of about 30° (30), holding the head of the corrugator muscle between the fingers, introducing the half of the 0.5 cc insulin syringe needle (length 8 mm). Inoculate 2 U Vistabex or 5 Speywood units per point with **medial and downward direction**.

c^2



1U
2,5Sp

Very superficial (S) injection, at an angle of about 10° (10), introducing only the tip of the needle with the flute-beak pointing upward (UP). Inoculate 1 U Vistabex or 2.5 Speywood units per point with **outward direction** (right patient).

d^1



2U
5Sp

Medium depth (M) injection, at an angle of about 30° (30), holding the head of the corrugator muscle between the fingers, introducing the half of the 0.5 cc insulin syringe needle (length 8 mm). Inoculate 2 U Vistabex or 5 Speywood units per point with **medial and downward direction**.

d^2



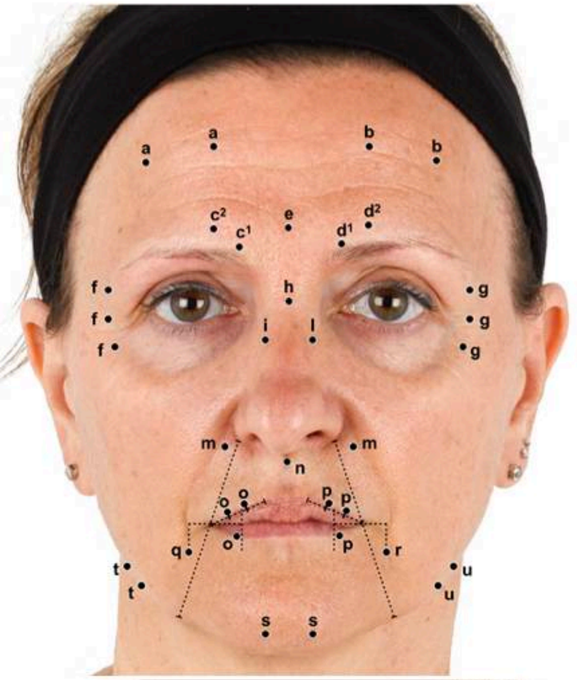
1U
2,5Sp

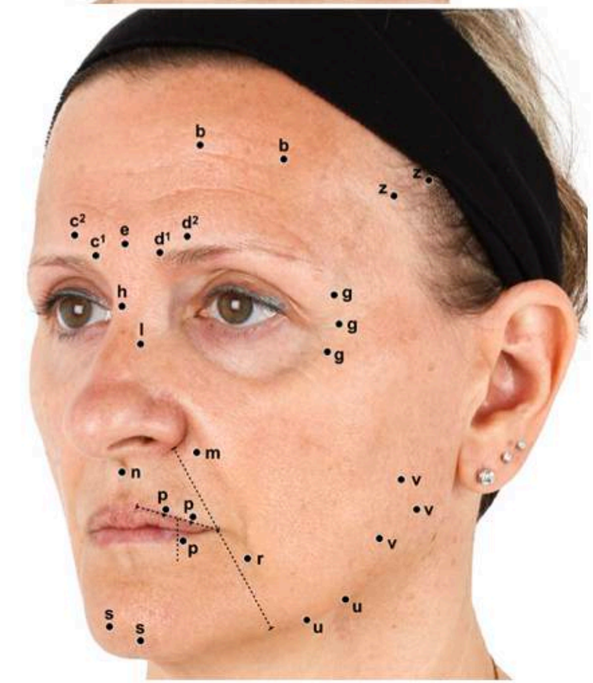
Very superficial (S) injection, at an angle of about 10° (10), introducing only the tip of the needle with the flute-beak pointing upward (UP). Inoculate 1 U Vistabex or 2.5 Speywood units per point with **outward direction** (left patient).

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e 

2U
5Sp

This is the second optional point of the procero muscle. Medium depth (M) injection, at an angle of about 30° (30), introducing the half of the 0.5 cc insulin syringe needle (length 8 mm). Inoculate 2 U Vistabex or 5 Speywood units with **top-down direction**.

f 

2U
5Sp

Very superficial (S) injection, at an angle of about 10° (10), introducing only the tip of the needle with the flute-beak pointing upward (UP). Inoculate 2 U Vistabex or 5 Speywood units per point with **outward direction** (right patient).

g 

2U
5Sp

Very superficial (S) injection, at an angle of about 10° (10), introducing only the tip of the needle with the flute-beak pointing upward (UP). Inoculate 2 U Vistabex or 5 Speywood units per point with **outward direction** (left patient).

h 

2U
5Sp

Deep injection (P), at an angle of about 90° (90), holding the procero muscle between the fingers, introducing the entire 0.5 cc insulin syringe needle (length 8 mm). Inoculate 2 U Vistabex or 5 Speywood units.

i 

1U
2,5Sp

Very superficial (S) injection, at an angle of about 10° (10), introducing only the tip of the needle with the flute-beak pointing upward (UP). Inoculate 1 U Vistabex or 2.5 Speywood units per point with **outward direction** (right patient).

l 

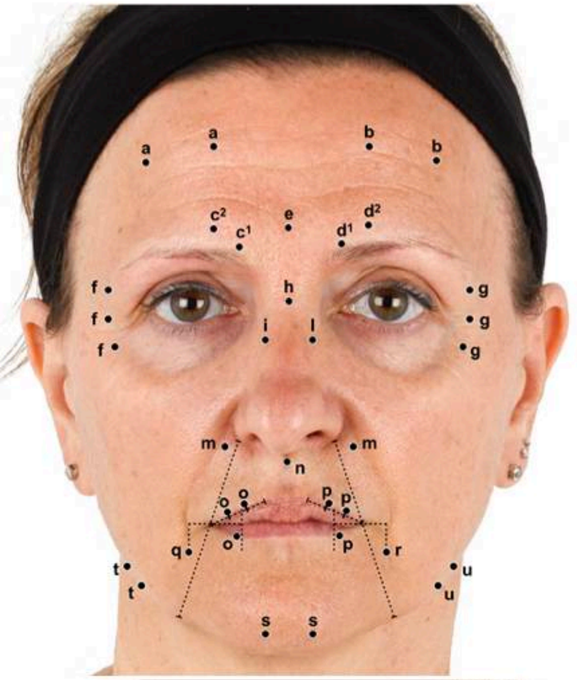
1U
2,5Sp

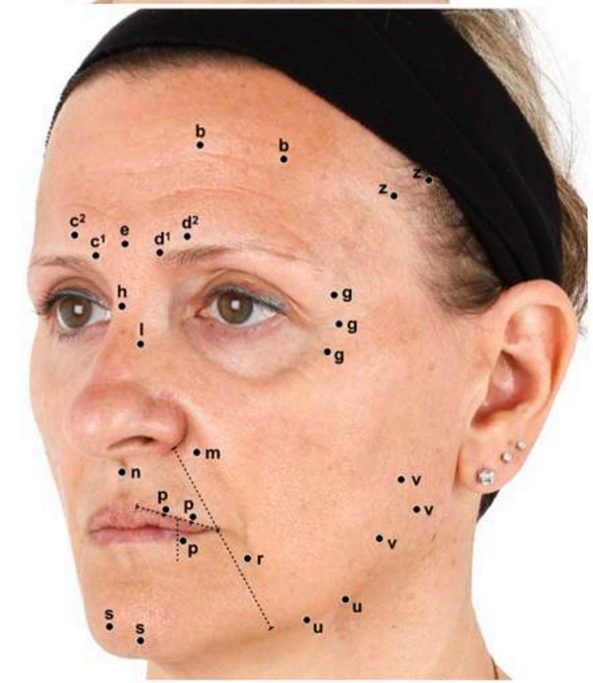
Very superficial (S) injection, at an angle of about 10° (10), introducing only the tip of the needle with the flute-beak pointing upward (UP). Inoculate 1 U Vistabex or 2.5 Speywood units per point with **outward direction** (left patient).

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m 

2U
5Sp

Medium depth (M) injection, at an angle of about 90° (90), introducing the half of the 0.5 cc insulin syringe needle (8 mm long). Inoculate 2 U Vistabex or 5 Speywood units.

n 

2U
5Sp

Deep injection (P), at an angle of about 90° (90), introducing the half of the 0.5 cc insulin syringe needle (length 8 mm). Inoculate 2 U Vistabex or 5 Speywood units.

o 

½U
~1Sp

Very superficial (S) injection, at an angle of about 10° (10), introducing only the tip of the needle with the flute-beak pointing upward (UP). Inoculate ½ U Vistabex or ~1 Speywood units per point with **outward direction** (right patient).

p 

½U
~1Sp

Very superficial (S) injection, at an angle of about 10° (10), introducing only the tip of the needle with the flute-beak pointing upward (UP). Inoculate ½ U Vistabex or ~1 Speywood units per point with **outward direction** (left patient).

q 

2U
5Sp

Medium depth (M) injection at an angle of about 30° (30) by introducing the half of the 0.5 cc insulin syringe needle (length 8 mm). Inoculate 2 U Vistabex or 5 Speywood units with **outward** (right patient) **and downward direction**.

r 

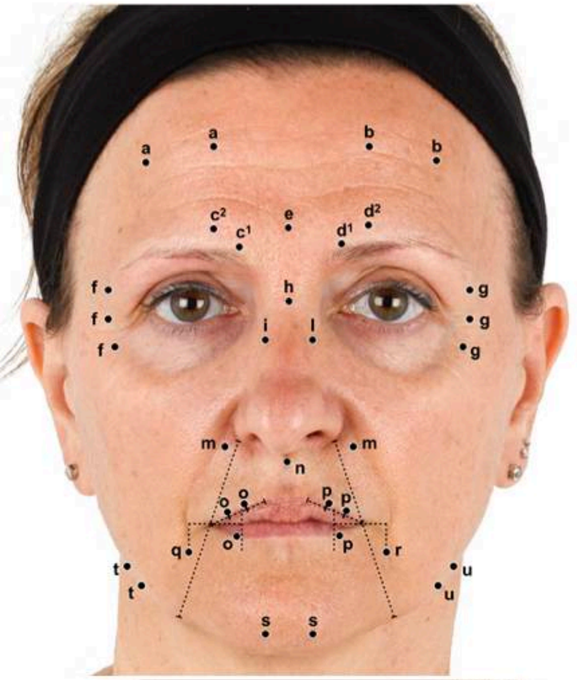
2U
5Sp

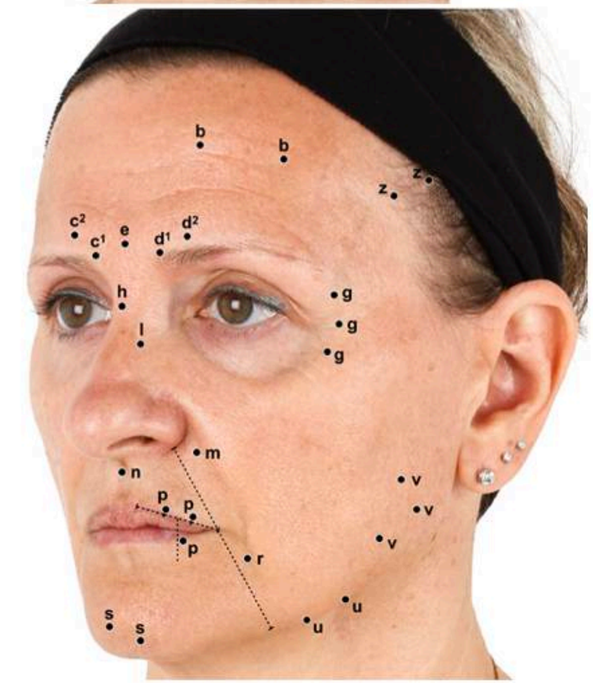
Medium depth (M) injection at an angle of about 30° (30) by introducing the half of the 0.5 cc insulin syringe needle (length 8 mm). Inoculate 2 U Vistabex or 5 Speywood units with **outward** (left patient) **and downward direction**.

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The dosages proposed here are conservative minimum doses to start treating these areas safely.
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s



2U
5Sp

Deep injection (P), at an angle of about 90° (90), by introducing the entire 0.5 cc insulin syringe needle (length 8 mm). Inoculate 2 U Vistabex or 5 Speywood units per point.

t



2U
5Sp

Medium depth (M) injection at an angle of about 30° (30) by introducing the half of the 0.5 cc insulin syringe needle (length 8 mm). Inoculate 2 U Vistabex or 5 Speywood units with **outward direction** (right patient).

u



2U
5Sp

Medium depth (M) injection at an angle of about 30° (30) by introducing the half of the 0.5 cc insulin syringe needle (length 8 mm). Inoculate 2 U Vistabex or 5 Speywood units with **outward direction** (left patient).

v



≥4U
≥10Sp

Deep injection (P), at an angle of about 90° (90), by introducing the entire 0.5 cc insulin syringe needle (length 8 mm). Inoculate 4 or more Vistabex U or 10 or more Speywood units per point and per side, depending on the mass of the muscle.

z



2U
5Sp

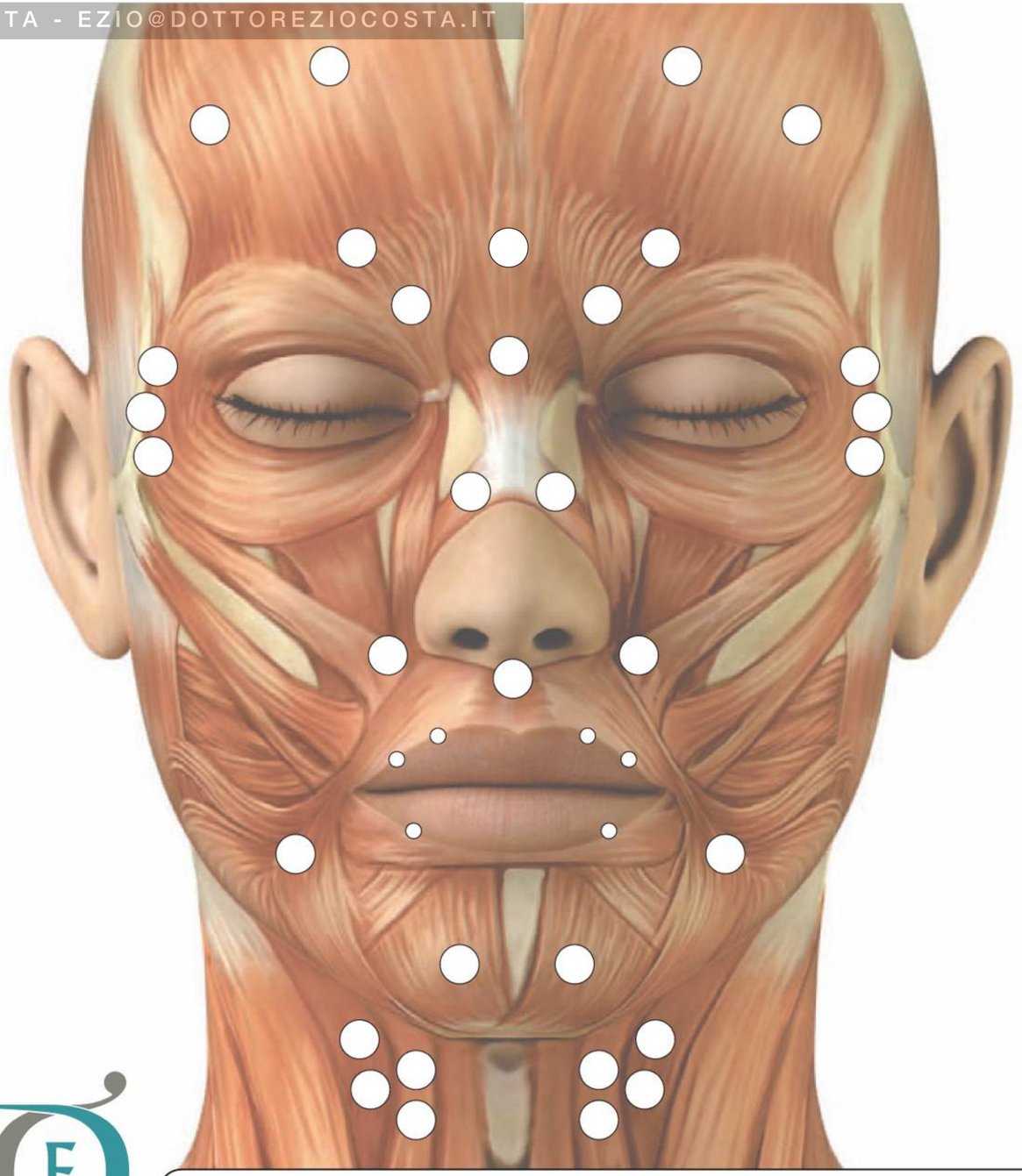
Medium depth (M) injection at an angle of about 30° (30) by introducing the half of the 0.5 cc insulin syringe needle (length 8 mm). Inoculate 2 U Vistabex or 5 Speywood units with **outward direction**.

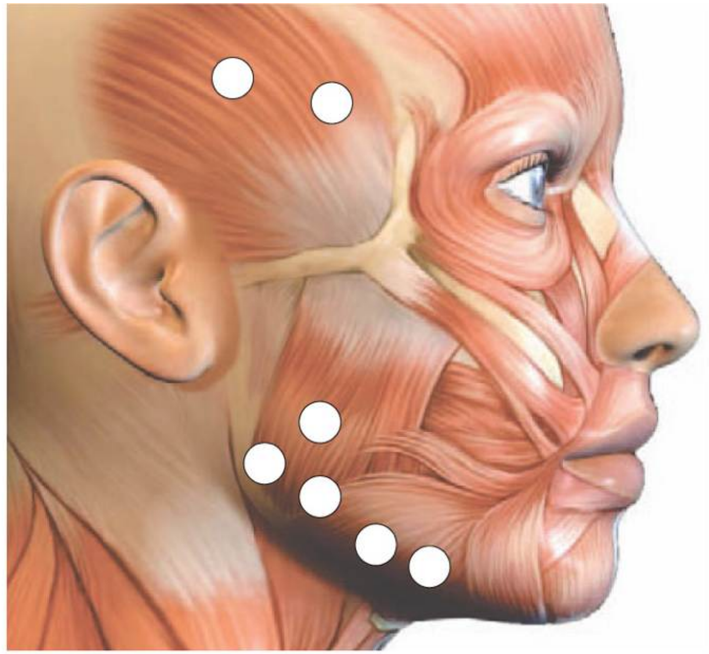
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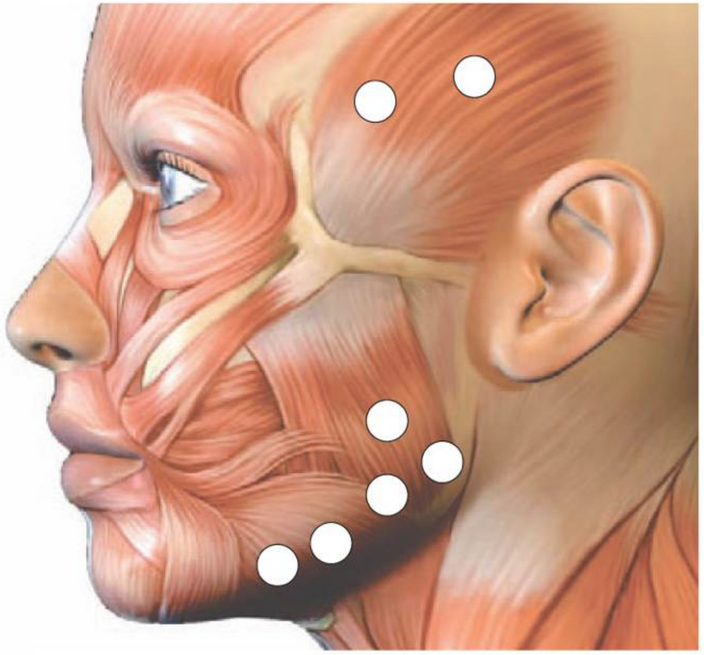
INJECTION SCHEME

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Date Patient TOT Units