



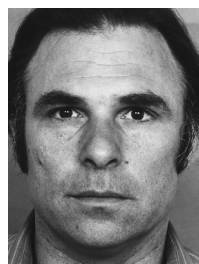
Action Unit 10 – Upper Lip Raiser

Figure 4-1 shows that the muscle underlying AU 10 is close to AU 9, but a little more lateral. It emerges from the center of the infraorbital triangle and attaches in the area of the nasolabial furrow. In AU 10 the skin above the upper lip is pulled upwards and towards the cheek, pulling the upper lip up.

A. Appearance Changes due to AU 10

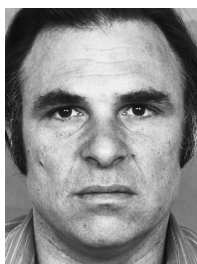
1. Raises the upper lip. Center of upper lip is drawn straight up, the outer portions of upper lip are drawn up but not as high as the center.
2. Causes an angular bend in the shape  of the upper lip.
3. Pushes the infraorbital triangle up, and may cause the infraorbital furrow to wrinkle, or deepen if already evident in neutral.
4. Deepens the nasolabial furrow and raises the upper part of this furrow, producing the pouching illustrated in Figure 4-2, shaped as . In some people this shape is permanently creased and deepens with the action of 10.
5. Widens and raises the nostril wings.
6. When the action is strong, the lips part.

Compare images 10i, 10ii and 10+25, noting that the action of 10 increases from B to E. With a 10E, the lips always part (as in image 10+25) unless another AU has acted to close the lips (e.g., AU 17 or AU 24). Of course, the lips may also part in a weak 10. Examine image L10B+L25. This is an example of a unilateral action of AU 10. Notice how it is described in numbers and letters. Verify that all of the appearance changes described for a bilateral 10 are apparent on only one side of the face in this image. Study the video of AU 10.



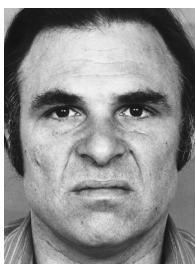
0 [page 465](#)

[page 381](#) for score



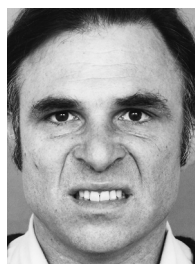
10i [page 474](#)

[page 390](#) for score



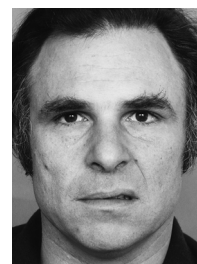
10ii [page 474](#)

[page 390](#) for score



10+25 [page 474](#)

[page 390](#) for score



L10+25 [page 474](#)

[page 390](#) for score



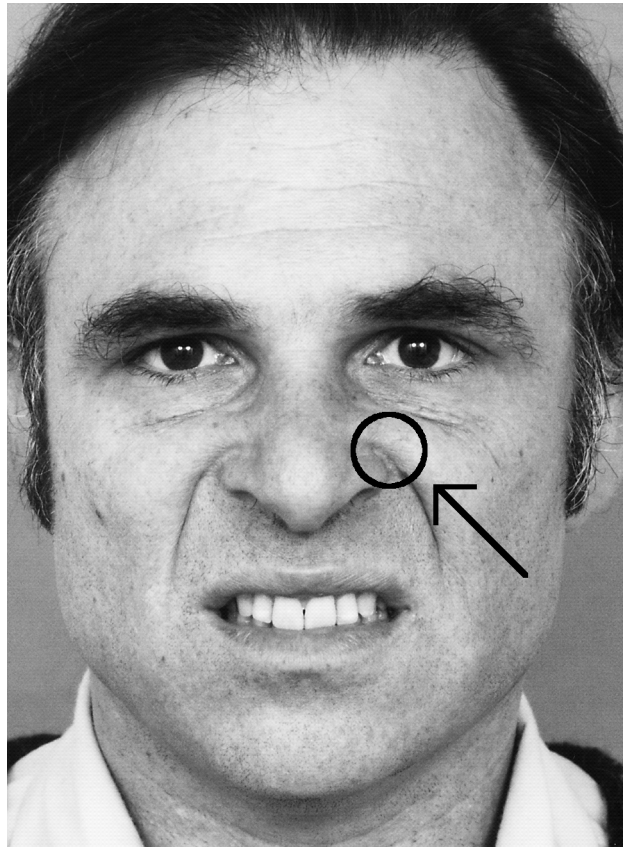
[video 10](#)

[page 417](#) for score

B. How to do AU 10

This movement is easy to make. Be careful not to involve AU 9 – no nose wrinkling. Just lift your upper lip straight up to show your upper front teeth. Practice weak and strong actions.

Figure 4-2: Location of the AU 10 Pouch



C. Intensity Scoring for AU 10


AU 10A

The appearance changes for AU 10 are sufficiently present to indicate AU 10, but are insufficient to score 10B (e.g., a *trace* of pouching or bulging of inner corner of the infraorbital triangle or *trace* of increase).

AU 10B

1. *Slight* pouching or bulging of inner corner of the infraorbital triangle. See Figure 4-2. If the pouch is permanent, it must increase *slightly*. If the pouch is ambiguous, but you can see the center of the upper lip raised and it is not due to 6, 9, 11, or 12, you can score 10.

If you did not see the movement, it must also meet an additional criterion:

2. *Slight* deepening of the upper portion of nasolabial furrow which takes on characteristic  shape. If this shape is permanent, it must increase *slightly*.
or
3. Center of upper lip raised *slightly*, causing an angular bend in the shape of the upper lip.

AU 10C

At least *marked* evidence of pouching or bulging of inner corner of the infraorbital triangle, with lip raising evident and at least some of other appearance changes in 10secA (1) through (5) are present, but the evidence is less than the criteria for 10D.

AU 10D



At least *severe* evidence of pouching or bulging of inner corner of the infraorbital triangle with all appearance changes in 10secA (1) through (5) present, but the evidence is less than the criteria for 10E.

AU 10E

Appearance changes in 10secA (1) through (5) are all present and *extreme to maximum*.

Reference: AU 10

Action Units or Combinations That Change the Intensity Scoring for AU 10

Problematic Combination of AUs	Target Action of Adjusted Criteria	Use These Criteria or See the Section Indicated
10+12	Criteria for 10B in 10+12	<p>a. The characteristic pouching of the medial top corner of the infraorbital triangle must be present, and,</p> <p>b. There must be deepening of top portion of nasolabial furrow, and,</p> <p>c. The shape of the upper lip is a compromise between the angular shape of the upper lip  due to 10 and the inverted-U shape  due to 12 stretching the lips laterally, and retains the characteristic 10 shape, which exposes more of the root of the upper front teeth and gum than would be produced by 12 alone.</p>
10+12	Criteria for 10E in 10+12	<p>Criteria a., b., and c. above are all <i>extreme to maximum</i>.</p> <p>Note that the c. criterion for 10B in 10+12 in this table above is rarely <i>extreme to maximum</i> if the 12 is a 12D or E, since such strong actions of 12 counteract the influence of 10 on the shape of the upper lip. With such strong 12s you are only able to score 10 as A, B, or C. With a 12C or less, you may be able to score 10E. It is very important to score AU 10 with 12 if the upper lip has been raised in the manner that is distinctive of AU 10, not merely by the action of 12, which also raises the upper lip.</p>