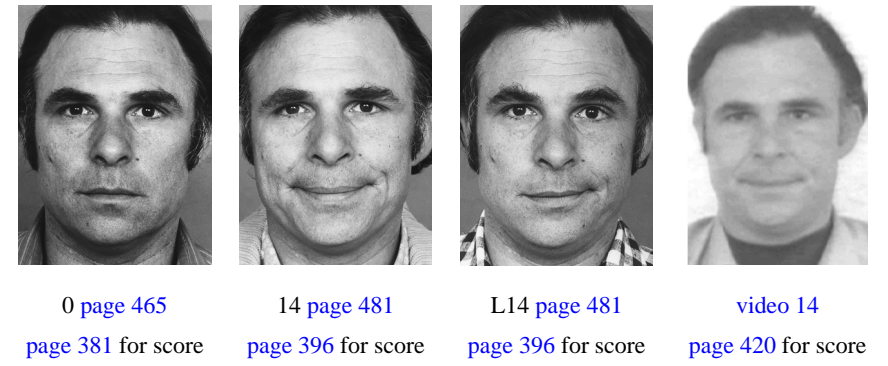

Action Unit 14 – Dimpler

Figure 5-1 shows that the muscle underlying AU 14 emerges far back in the cheek bones and attaches in the center portion of the lips. One strand attaches to the upper lip, the other to the lower lip. In AU 14 the skin beyond the lip corners is pulled inwards towards the lip corners, which are themselves drawn somewhat towards the ears. Unlike AU 20, which stretches the lips, AU 14 tightens the lip corners. The lateral stretching of AU 20 can pull the lip corners somewhat up, down or straight, but AU 14 almost always turns them up with the tightening. Several other, special actions help to interpret the significance of 14 in post-scoring stages of research that should be detected and scored when you score 14. These actions involve head and eye movements that co-occur with 14. You do not need to study these actions while learning AU 14; you will encounter them in later chapters. A table at the end of this section summarizes these special actions.

A. Appearance Changes due to AU 14

- 1. Tightens the corners of the mouth, pulling the corners somewhat inwards, and narrowing the lip corners.
- 2. Produces wrinkles and/or a bulge at the lip corner.
- 3. May cause a dimple-like wrinkle beyond the lip corner.
- 4. Lip corners usually angle up but they could be angled down or just straight.
- 5. Lips stretch lateral to a limited extent and flatten.
- 6. May deepen the nasolabial furrow.
- 7. Pulls the skin below the lip corners and the chin boss up towards the lip corners, flattening and stretching the chin boss skin.
- 8. May cause a short bulge or wrinkle at the lip corners which extends the line between the lips down towards the chin; this change may give the corners of the lips a downward cast.

Inspect the image of 14 and L14. Note the only difference is whether the action is bilateral or unilateral. Inspect the video of AU 14.



B. How to do AU 14

Try to make a dimple in your cheek appear. If you can do it, squeeze very hard, pressing your cheeks against your teeth. Alternatively, try to tighten the corners of your lips so they are pulled inwards, squeezing inwards with your cheeks so they press on your teeth. Try 14 on only one side of your face.

C. Intensity Scoring For AU 14

AU 14A

The appearance changes for AU14 are sufficiently present to indicate AU 14, but are insufficient to score 14B (e.g., a *trace* of tightening of the lip corners and with a *trace* of muscle bulging and wrinkling at the lip corners).

AU 14B

1. *Slight* evidence of tightening of the lip corners, pulling the corners somewhat inwards.
and
2. At least one of the following signs:
 - a. *Slight* wrinkles at lip corners extending the line between the lips, which are parallel or perpendicular to lips, or which angle down or up; if these wrinkles are permanent, they must increase *slightly*.
or
 - b. *Slight* muscle bulge at lip corners.
or
 - c. *Slight* dimple-like wrinkle beyond lip corners; if permanent, it must increase *slightly*.

Note that the 14 in image 14 and L14 meets criteria 1, 2a, 2b, and 2c.

AU 14C

At least *marked* evidence of lip corner tightening and at least *marked* evidence of lip corner wrinkling, lip corner bulging, or dimpling, but the evidence is less than the criteria for 14D.

AU 14D

At least *severe* evidence of lip corner tightening and at least *severe* evidence of lip corner wrinkling, lip corner bulging, or dimpling, but the evidence is less than the criteria for 14E.

AU 14E

Maximum evidence of lip corner tightening and *maximum* evidence of lip corner wrinkling, lip corner bulging, or dimpling.

Asymmetrical or Unilateral 14

When the two sides of the face differ in intensity by two or more levels of the intensity scale, you should use the scoring prefix A to indicate that the action is asymmetrical when you are not otherwise scoring actions for asymmetry. When the action is unilateral, use the scoring prefixes R or L to indicate the side on which the action occurs. These distinctions for AU 14 are important for later interpretations.

Reference: AU 14

AUs 22, 28, 33, 34, and 35 make seeing the signs of 14 difficult when 14 occurs in combination with these AUs. Look for the tightening in the corners of the lips caused by 14 to score 14 in the presence of these AUs.

Actions of Special Relevance to AU 14

Certain head and eye movements or position changes have special significance in regard to AU 14, and you should carefully inspect the face for these actions when you score 14, even when not otherwise scoring head/eye positions. Use the definitions of these AUs when a symmetrical, bilateral AU 14 occurs, either separately or in combination with other AUs. The AUs listed in the following table are scored with the facial event (see Event Scoring in Chapter 11) even if they pre-

cede the bilateral 14, rather than just when they accompany it. Note that this special rule applies only when you are scoring bilateral 14.

AU	Summary of AU	See Description for Details
M55	Head Tilt Left	“Head movement codes M55 and M56” on page 338
M56	Head Tilt Right	“Head movement codes M55 and M56” on page 338
M83	Head Upward and to the Side	“Head Movement Code M83” on page 323
M61	Eyes Left	“Eye Movement Codes M61 and M62” on page 343
M62	Eyes Right	“Eye Movement Codes M61 and M62” on page 343
M68	Upward Rolling of Eyes	“Eye Movement Codes M68, 69, and M69” on page 321
M69	Head and/or Eyes Look at Other Person	“Eye Movement Codes M68, 69, and M69” on page 321

Action Units or Combinations That Change the Intensity Scoring for Scoring AU 14

Problematic Combination of AUs	Target Action of Adjusted Criteria	Use These Criteria or See the Section Indicated
10+14	Criteria for 14B in 10+14	The criteria for scoring 14B in 10+14 or 14+17 are the same as 14 alone except that criterion 2a in 14secC is usually not evident.
14+17	Criteria for 14B in 10+14	See 10+14