



Age: 25

Age: 65

How the Face Ages:
Anatomical Changes
Over Time

Spark

Aging Is a Process¹⁻³



20s

30s

40s

50s

60s

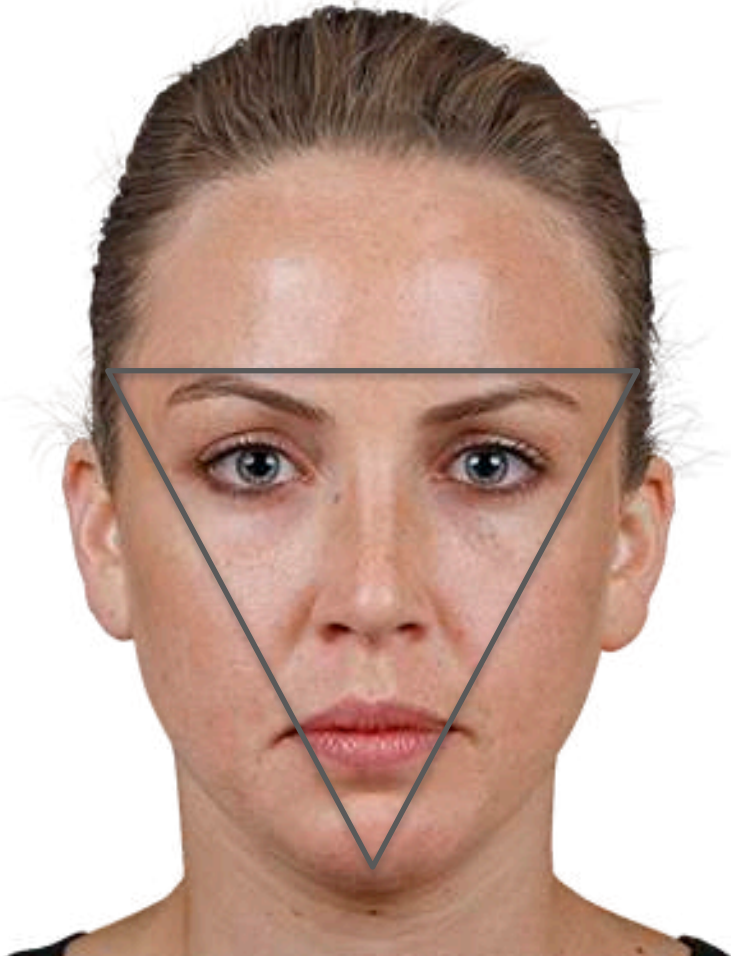
1. Friedman. Facial Plast Surg Clin North Am. 2005; 2. Zimble et al. Facial Plast Surg Clin North Am. 2001;
3. McCullough and Kelly. Ann N Y Acad Sci. 2006; 4. Michaud et al. J Cosmet Dermatol. 2015.

Reversal of Triangle With Age^{1,2}



1. Brandt and Cazzaniga. Clin Interv Aging. 2008; 2. Donofrio. Dermatol Surg. 2000.

The Triangle of Youth¹



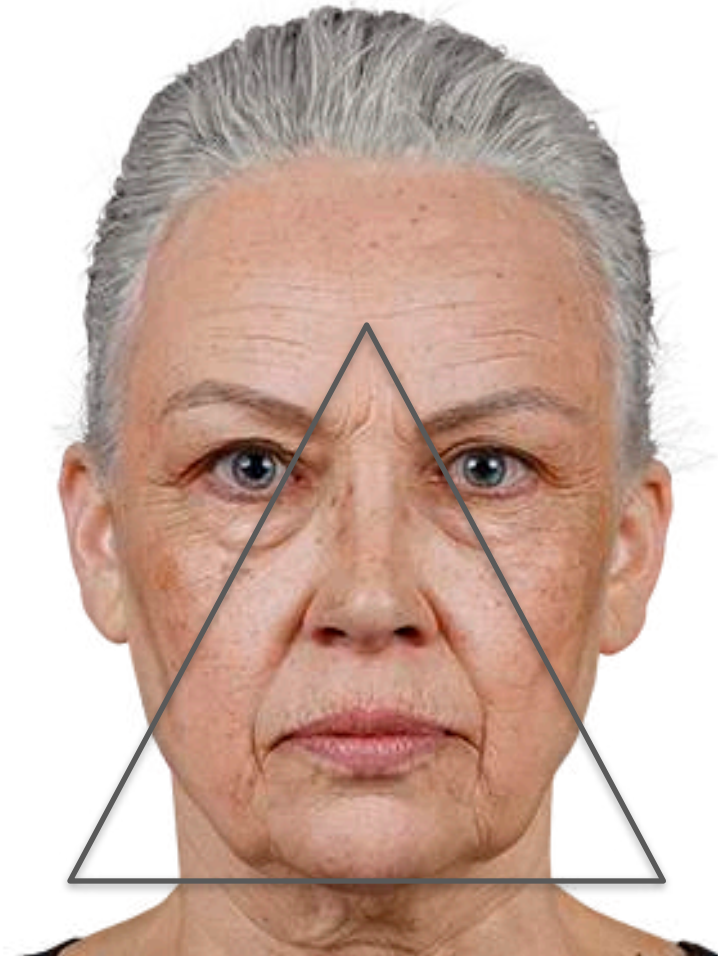
Age: 25

Typical youthful features:

- High cheekbones²
- Full cheeks³
- Defined jawline³

1. Michaud. J Cosmet Dermatol. 2015; 2. Murphy et al. In: Azizzadeh et al, eds. Master Techniques in Facial Rejuvenation. 2007;
3. Friedman. Facial Plast Surg Clin North Am. 2005.

The Inverted Triangle¹



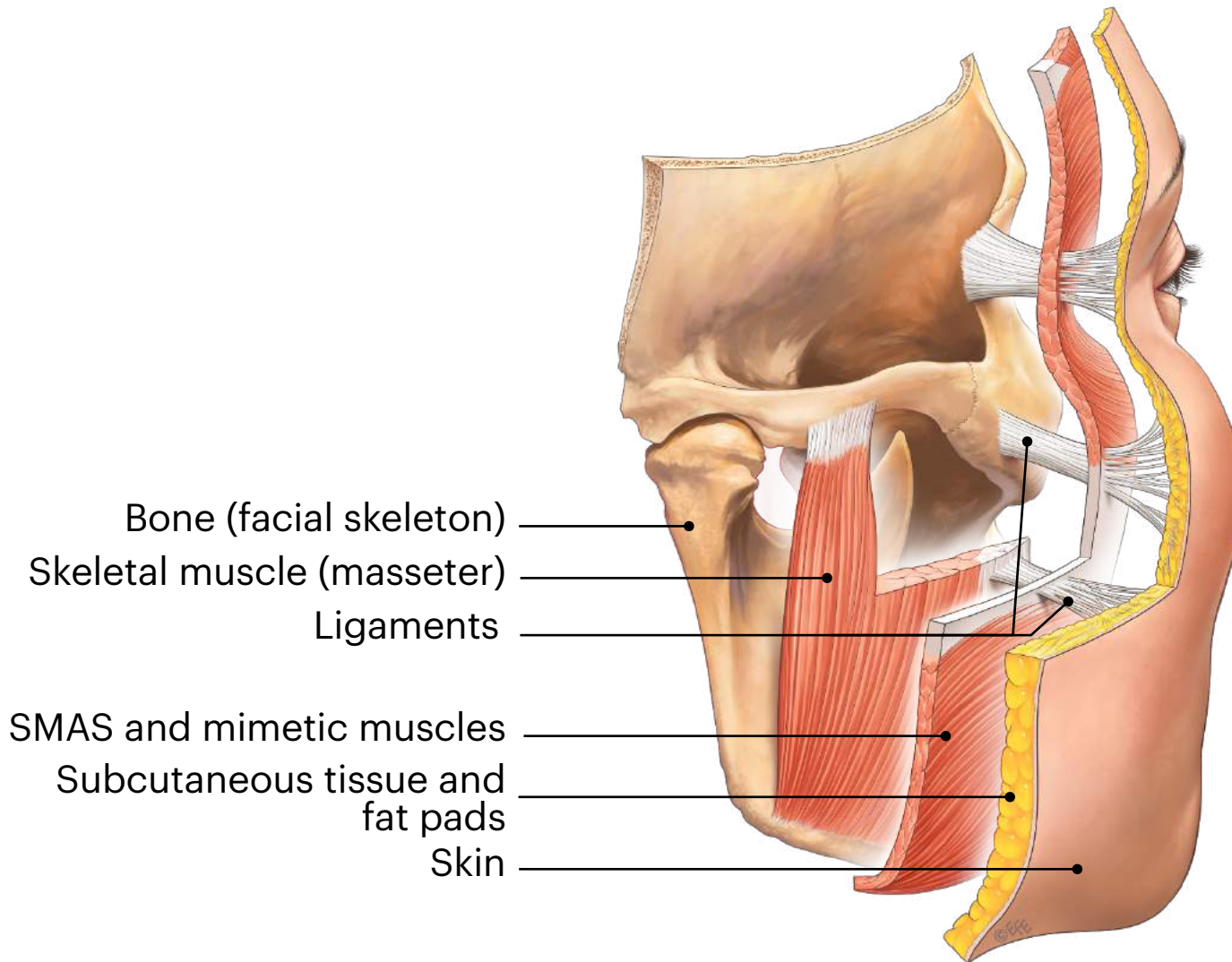
Age: 65

Common features of aging:

- Formation of deeper wrinkles and folds¹
- Drooping skin in the midface¹⁻³
- Flattened cheeks³
- Sagging jawline²⁻⁶
- Fullness between the neck and chin (“double chin”)^{1,7}

1. Michaud. J Cosmet Dermatol. 2015; 2. Murphy et al. In: Azizzadeh et al, eds. Master Techniques in Facial Rejuvenation. 2007; 3. Coleman and Grover. Aesthet Surg J. 2006; 4. Kahn and Shaw. Facial Plast Surg. 2010; 5. Friedman. Facial Plast Surg Clin North Am. 2005; 6. Zimble et al. Facial Plast Surg Clin North Am. 2001; 7. DeFatta and Ducic. Oper Tech Otolaryngol. 2007.

Major Facial Layers and Structures^{1,2}



1. Prendergast. In: Shiffman and Di Giuseppe, eds. *Cosmetic Surgery*. 2012;
2. Mendelson and Wong. In: Warren and Neligan, eds. *Plastic Surgery*. 2013.

Age-Related Bone Remodeling¹



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- Resorption of the brow bone
- Orbital aperture increases in size
- Bone loss in the pyriform
- Retrusion of the maxilla
- Decreased height of the mandible

Fat Pad and Soft Tissue Changes



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Subcutaneous fat thins and descends¹

Epidermis layer thins due to lost elastic fibers and collagen²

Fat accumulates submentally and in the neck¹

Bulges and grooves appear in the superficial and deep compartments³

Periorbital fat prolapses

Malar bag forms

Jowl fat compartments descend

Visual Signs of Aging Upper Face



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Increased prominence of¹:

Forehead lines

Lateral canthal lines

Glabellar lines

Lateral brow hooding²

Upper eyelid flattens and tapers
at both ends³

Medial drift in lateral canthal³

1. Zimblet et al. Facial Plast Surg Clin North Am. 2001; 2. Kahn and Shaw. Facial Plast Surg. 2010; 3. Kahn and Shaw. Aesthet Surg J. 2008.

Visual Signs of Aging Midface



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Orbital fat prolapses¹

Malar bag protrudes²

Midface groove deepens²

Inferior volume shift³

Upper and midcheek deflate,
causing loss of convexity³

Flattening of ogee curve⁴

1. Friedman. Facial Plast Surg Clin North Am. 2005; 2. Alghoul and Codner. Aesthet Surg J. 2013; 3. Coleman and Grover. Aesthet Surg J. 2006; 4. Swift and Remington. Clin Plast Surg. 2011.

Visual Signs of Aging Lower Face



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- Nasolabial folds (NLFs) form¹
- Formation of marionette lines²
- Jowls form on the mandibular line¹
- Flattening of Cupid's bow and philtral columns³
- Volume loss/thinning of the lips³
- Downturn of the oral commissures³
- Formation of vertical perioral lines³

1. Mendelson and Wong. Aesthetic Plast Surg. 2012; 2. Brandt and Cazzaniga. Clin Interv Aging. 2008; 3. Sarnoff and Gotkin. J Drugs Dermatol. 2012.

Visual Signs of Aging Submental Area¹



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Chin ptosis

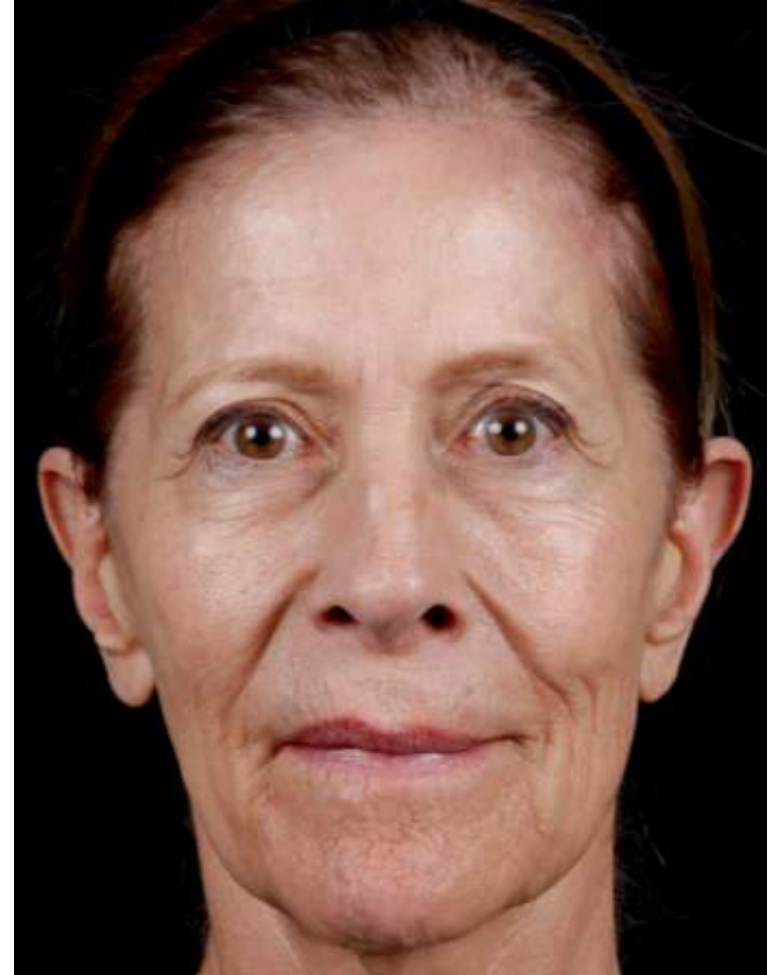
Jowl formation

Increase in fullness in the
submental area

Platysmal banding

1. Friedman. Facial Plast Surg Clin North Am. 2005.

Generations Case Study



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