

Case 1

Facial paralysis syndactyly

A 68-year-old man comes to your office concerned about the appearance of his face. He required radiation to his facial nerve and has not experienced any recovery in 2 years.



Objective 1: To obtain relevant physical examination for facial paralysis.

Question 1:

What would you look for on physical examination?

- Eye examination
- Lower lid function
- Upper lid function
- Bell's phenomenon
- Nasal airflow
- Facial position
- Examination of the contralateral facial nerve
- Complete examination of all branches of the facial nerve (with grading system)

Objective 2: To determine the options for reconstruction

Question 2:

What are your options for reconstruction of this patient's eyelid?

- Gold weight
- Tarsorrhaphy
- Lateral canthopexy
- Lateral canthoplasty

Question 3:

What are your surgical options for reconstruction of this patient's lower face?

Static:

- Face lift
- Facial suspension with tendon, fascia, alloplast
- Midface lift
- Dynamic:
- Temporalis transfer
- Masseter transfer
- Two-stage procedure with cross facial nerve graft and functional muscle transfer
- One-stage procedure with functional muscle nerve transfer to nerve to masseter, hypoglossal etc.

Objective 3: To evaluate a candidate's communication with the patient.

Question 4:

The patient would like help to decide between a static and dynamic transfer. How would you communicate the difference between these procedures?

Communication:

- Description of techniques
- Clear words and understandable language
- Risks and benefits of each
- Type of outcome expected from each procedure

Case 2

Facial trauma

A 24-year-old woman was involved in a motor vehicle accident. She was brought unconscious to the emergency department.



Objective 1: The candidate can manage an acute facial trauma

Question 1:

How will you manage this patient?

- ATLS
- Airway – ensure airway is maintained, intubation if not able to protect airway
- Breathing
- Circulation

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- C-spine precautions
- Neuro examination
- Secondary survey

Objective 2: The candidate can describe a facial CT

Question 2:

A CT scan of the face is obtained. Please describe your findings.

- Comminuted buttress fractures
- Orbital floor fracture
- Z-F suture
- Alveolus
- Maxillary sinus

Objective 3: The candidate can describe the principles of facial trauma

Question 3:

Please describe the principles of management of a facial injury with bone loss and malocclusion.

- Establish occlusion
- IMF/MMF
- Exposure of all fractures
- Fixation of buttresses with bone grafts
- Reconstruct orbital floor
- Resuspend soft tissues

