



Revision reduction malarplasty with coronal approach

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KEYWORDS

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Summary *Background:* Although reduction malarplasty is one of the most popular aesthetic surgical procedures in Asia, there have been a few reports of complications or unfavourable results. A poor understanding of the repositioning vector of the malar segment or improper fixation can result in unsatisfactory outcomes, such as non-union or inferolaterally displaced malunion of the malar complex. The authors present some revision malarplasty cases of patients with unfavourable or complicated outcomes to emphasise the importance of accurate repositioning and firm fixation of the malar complex in reduction malarplasty.

Methods: A total of 20 patients underwent revision malarplasty by the coronal approach after an unfavourable primary reduction malarplasty. The major complaints included cheek drooping, depression, asymmetry and overcorrection. After repositioning the inferolaterally displaced malar complex to the appropriate position and obtaining bone-to-bone contact, rigid fixation was performed with a plate and screw. The calvarian bone was grafted to the bony gap. Midface and forehead lifts were also performed when indicated.

Results: Most patients had satisfactory results without severe complications. Two patients required a secondary revision due to asymmetry and non-union. Three patients developed frontal palsies, which were all temporary.

Conclusion: Precise repositioning of the malar complex and firm fixation are essential for reduction malarplasty. The coronal approach is recommended when encountering unfavourable results or complications because it offers a wide surgical field for repositioning and fixation of the malar complex.

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Table 1 Summary of Patients

Case	Age (yr)	Period from last operation	Symptoms	Previous surgery			Follow up (mon)	Complications	Ancillary procedure
				Approach	Fixation	Osteotomy			
1	38	8 yr	Cheek drooping	Intraoral	None	Osteotomy only	34	Temporary FP	Ft lift
2	29	2 yr	Cheek drooping, depression	Intraoral	None	Osteotomy only	12		Ft lift
3	20	14 m	Cheek drooping, depression	Intraoral	None	Osteotomy only	12		Ft lift
4	30	5 m	Depression	Intraoral	Wire	Ostectomy	26	Asymmetry; secondary revision	
5	46	20 yr	Cheek drooping	Intraoral	None	Osteotomy only	6	Seroma	Ft lift, T aug
6	29	4 yr	Cheek drooping	Intraoral	Wire	Osteotomy only	9		Ft lift, Rd an
7	36	6 m	Cheek drooping, depression	Intraoral	None	Osteotomy only	6		
8	39	3 yr	Cheek drooping	Coronal	Wire	Osteotomy only	24	Temporary FP, cicatrical alopecia	Ft lift
9	26	4 yr	Cheek drooping	Intraoral	Plate	Osteotomy only	12		Ft lift
10	20	3 yr	Cheek drooping	Coronal	Wire	Ostectomy	24	Temporary FP	
11	23	6 m	Click sound with mouth opening, depression	Intraoral	None	Osteotomy only	12		
12	23	4 yr	Cheek drooping	Intraoral	None	Osteotomy only	6	Forehead contour irregularity	F imp rmv
13	43	9 m	Cheek drooping, pain	Intraoral	Wire	Osteotomy only	12		Ft lift, T aug
14	32	10 m	Depression	Coronal	Wire	Ostectomy	36	Depression d/t sustained nonunion; secondary revision	
15	24	18 m	Cheek drooping, pain	Intraoral	None	Osteotomy only	12		
16	35	7 yr	Asymmetry	Intraoral	None	Osteotomy only	12	Seroma	Ft lift, T aug
17	28	4 yr	Asymmetry, overcorrection	Intraoral	Wire	Ostectomy	9		Ft lift, M aug
18	30	21 m	Cheek drooping	Intraoral	Plate	Osteotomy only	12	Cicatrical alopecia	Ft lift
19	26	15 m	Overcorrection	Intraoral	Wire	Ostectomy	12		Genioplasty
20	28	13 m	Depression	Intraoral	None	Osteotomy only	9		

FP—frontal palsy
Ft lift—forehead temple lift
T aug— temple augmentation with silastic implant
Rd an—reduction mandibular angleplasty
M aug—malar augmentation with silastic implant

Reduction malarplasty is used to reshape the facial contour in an oval shape. It is one of the most popular aesthetic surgical procedures in Asia because Oriental people tend to have prominent malar complexes. Many surgical methods for reduction malarplasty have been introduced; however, most focus on shortening the surgical time and minimising the fixation points by minimal incisions or green stick osteotomy.^{1–7} There have been few reports of its complications or unfavourable results.

Reduction malarplasty does not mean simply reducing the zygoma; rather, it means to reposition the malar complex to its most aesthetic position. The malar highlight needs to be placed superomedially to obtain a youthful and

attractive midface.⁸ However, unfavourable results can be encountered if the superior vector is not considered during repositioning, particularly in elderly patients who tend to present with midface sagging. Moreover, without appropriate fixation, non-union or inferolateral displacement of the malar complex can occur due to masseter muscle action,⁹ which may lead to complications, such as malar depression or cheek drooping.

Therefore, the authors emphasise the importance of precise repositioning and fixation of the malar complex through our experience of revision reduction malarplasty using the coronal approach in unfavourable or complicated cases.

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