World Journal of *Clinical Cases*

World J Clin Cases 2024 May 16; 12(14): 2293-2465





Published by Baishideng Publishing Group Inc

W J C C World Journal of Clinical Cases

Contents

Thrice Monthly Volume 12 Number 14 May 16, 2024

EDITORIAL

2293	Bringing gut microbiota into the spotlight of clinical research and medical practice		
	Davoutis E, Gkiafi Z, Lykoudis PM		

- 2301 Fertility preservation in patients with gynecologic cancer Gică N
- Investigating causal links between gastroesophageal reflux disease and essential hypertension 2304 Jagirdhar GSK, Bains Y, Surani S

ORIGINAL ARTICLE

Case Control Study

- 2308 Neutrophil-to-lymphocyte ratio associated with renal function in type 2 diabetic patients Gao JL, Shen J, Yang LP, Liu L, Zhao K, Pan XR, Li L, Xu JJ
- 2316 Impact of stage-specific limb function exercises guided by a self-management education model on arteriovenous fistula maturation status

Li Y, Huang LJ, Hou JW, Hu DD

Retrospective Cohort Study

2324 Investigation of risk factors in the development of recurrent urethral stricture after internal urethrotomy Gul A, Ekici O, Zengin S, Barali D, Keskin T

Retrospective Study

Clinicopathological characteristics and typing of multilocular cystic renal neoplasm of low malignant 2332 potential

Gao WL, Li G, Zhu DS, Niu YJ

2342 Non-improvement of atrophic gastritis in cases of gastric cancer after successful Helicobacter pylori eradication therapy

Suzuki Y, Katayama Y, Fujimoto Y, Kobori I, Tamano M

2350 Lymphatic plastic bronchitis and primary chylothorax: A study based on computed tomography lymphangiography

Li XP, Zhang Y, Sun XL, Hao K, Liu MK, Hao Q, Wang RG

Clinical and Translational Research

Genetically predicted fatty liver disease and risk of psychiatric disorders: A mendelian randomization 2359 study

Xu WM, Zhang HF, Feng YH, Li SJ, Xie BY



World Journal of Contents	
onter	Thrice Monthly Volume 12 Number 14 May 16, 2024
2370	Different effects of 24 dietary intakes on gastroesophageal reflux disease: A mendelian randomization
	Liu YX, Yang WT, Li Y
	CASE REPORT
2382	Clinical review and literature analysis of hepatic epithelioid angiomyolipoma in alcoholic cirrhosis: A case report
	Guo JQ, Zhou JH, Zhang K, Lv XL, Tu CY
2389	Previously undiagnosed Morgagni hernia with bowel perforation detected during repeat screenin colonoscopy: A case report
	Al Alawi S, Barkun AN, Najmeh S
2396	Pleomorphic rhabdomyosarcoma of the vagina: A case report
	Xu P, Ling SS, Hu E, Yi BX
2404	
2404	Coexistence of liver abscess, hepatic cystic echinococcosis and hepatocellular carcinoma: A case report <i>Hu YW, Zhao YL, Yan JX, Ma CK</i>
2412	Waist subcutaneous soft tissue metastasis of rectal mucinous adenocarcinoma: A case report
	Gong ZX, Li GL, Dong WM, Xu Z, Li R, Lv WX, Yang J, Li ZX, Xing W
2420	Combined laparoscopic and thoracoscopic repair of adult right-sided Bochdalek hernia with massive live prolapse: A case report
	Mikami S, Kimura S, Tsukamoto Y, Hiwatari M, Hisatsune Y, Fukuoka A, Matsushita T, Enomoto T, Otsubo T
2426	Immediate secondary rhinoplasty using a folded dermofat graft for resolving complications related silicone implants: A case report
	Kim H, Kim JH, Koh IC, Lim SY
2431	Sustained remission of Cronkhite-Canada syndrome after corticosteroid and mesalazine treatment: A cas report
	Chen YL, Wang RY, Mei L, Duan R
2438	Type one autoimmune pancreatitis based on clinical diagnosis: A case report
	Zhang BY, Liang MW, Zhang SX
2445	Detection of LANAA2 - 74500 Cur D2200 modeling in a new hour with using demoting him on A and more the
2445	Detection of LAMA2 c.715C>G:p.R239G mutation in a newborn with raised creatine kinase: A case report <i>Yuan J, Yan XM</i>
2451	Ultrasound-guided sphenopalatine ganglion block for effective analgesia during awake fiberopt nasotracheal intubation: A case report
	Kang H, Park S, Jin Y
2457	Appendiceal bleeding caused by vascular malformation: A case report
	Ma Q, Du JJ



Contents

Thrice Monthly Volume 12 Number 14 May 16, 2024

LETTER TO THE EDITOR

Early diagnosis of pancreatic cancer: Shedding light on an unresolved challenge 2463 Lindner C



Contents

Thrice Monthly Volume 12 Number 14 May 16, 2024

ABOUT COVER

Peer Reviewer of World Journal of Clinical Cases, Sergio Conti, MD, PhD, Doctor, Research Scientist, Staff Physician, Department of Cardiac Electrophysiology, ARNAS Civico Hospital, Palermo 90127, Italy. sergioconti.md@gmail.com

AIMS AND SCOPE

The primary aim of World Journal of Clinical Cases (WJCC, World J Clin Cases) is to provide scholars and readers from various fields of clinical medicine with a platform to publish high-quality clinical research articles and communicate their research findings online.

WJCC mainly publishes articles reporting research results and findings obtained in the field of clinical medicine and covering a wide range of topics, including case control studies, retrospective cohort studies, retrospective studies, clinical trials studies, observational studies, prospective studies, randomized controlled trials, randomized clinical trials, systematic reviews, meta-analysis, and case reports.

INDEXING/ABSTRACTING

The WJCC is now abstracted and indexed in Science Citation Index Expanded (SCIE, also known as SciSearch®), Journal Citation Reports/Science Edition, Current Contents®/Clinical Medicine, PubMed, PubMed Central, Reference Citation Analysis, China Science and Technology Journal Database, and Superstar Journals Database. The 2023 Edition of Journal Citation Reports[®] cites the 2022 impact factor (IF) for WJCC as 1.1; IF without journal self cites: 1.1; 5-year IF: 1.3; Journal Citation Indicator: 0.26; Ranking: 133 among 167 journals in medicine, general and internal; and Quartile category: Q4.

RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Zi-Hang Xu; Production Department Director: Xu Guo; Cover Editor: Jin-Lei Wang.

NAME OF JOURNAL World Journal of Clinical Cases	INSTRUCTIONS TO AUTHORS https://www.wignet.com/bpg/gerinfo/204
ISSN	GUIDELINES FOR ETHICS DOCUMENTS
ISSN 2307-8960 (online)	https://www.wjgnet.com/bpg/GerInfo/287
LAUNCH DATE	GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH
April 16, 2013	https://www.wjgnet.com/bpg/gerinfo/240
FREQUENCY	PUBLICATION ETHICS
Thrice Monthly	https://www.wjgnet.com/bpg/GerInfo/288
EDITORS-IN-CHIEF	PUBLICATION MISCONDUCT
Bao-Gan Peng, Salim Surani, Jerzy Tadeusz Chudek, George Kontogeorgos, Maurizio Serati	https://www.wjgnet.com/bpg/gerinfo/208
EDITORIAL BOARD MEMBERS	ARTICLE PROCESSING CHARGE
https://www.wjgnet.com/2307-8960/editorialboard.htm	https://www.wjgnet.com/bpg/gerinfo/242
PUBLICATION DATE	STEPS FOR SUBMITTING MANUSCRIPTS
May 16, 2024	https://www.wjgnet.com/bpg/GerInfo/239
COPYRIGHT	ONLINE SUBMISSION
© 2024 Baishideng Publishing Group Inc	https://www.f6publishing.com

© 2024 Baishideng Publishing Group Inc. All rights reserved. 7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA E-mail: office@baishideng.com https://www.wjgnet.com



W J C C World Journal of Clinical Cases

Submit a Manuscript: https://www.f6publishing.com

World J Clin Cases 2024 May 16; 12(14): 2426-2430

DOI: 10.12998/wjcc.v12.i14.2426

ISSN 2307-8960 (online)

CASE REPORT

Immediate secondary rhinoplasty using a folded dermofat graft for resolving complications related to silicone implants: A case report

Hoon Kim, Jong Hyup Kim, In Chang Koh, Soo Yeon Lim

Specialty type: Surgery

Provenance and peer review:

Unsolicited article; Externally peer reviewed.

Peer-review model: Single blind

Peer-review report's scientific quality classification

Grade A (Excellent): 0 Grade B (Very good): B Grade C (Good): 0 Grade D (Fair): 0 Grade E (Poor): 0

P-Reviewer: Xing HC, China

Received: January 24, 2024 Revised: February 22, 2024 Accepted: April 1, 2024 Published online: May 16, 2024



Hoon Kim, Jong Hyup Kim, In Chang Koh, Soo Yeon Lim, Department of Plastic and Reconstructive Surgery, Konyang University Hospital, University of Konyang College of Medicine, Myunggok Medical Research Institute, Daejeon 35365, South Korea

Corresponding author: Soo Yeon Lim, MD, Assistant Professor, Department of Plastic and Reconstructive Surgery, Konyang University Hospital, University of Konyang College of Medicine, Myunggok Medical Research Institute, 158 Gwanjeodong-ro, Daejeon 35365, South Korea. lsean84@gmail.com

Abstract

BACKGROUND

Various surgical techniques have been developed to enhance the nose shapes of Asian patients. Silicone implant augmentation rhinoplasty is widely used because it is relatively easy to perform and often yields satisfactory outcomes. However, this technique may lead to complications, including ischemia, necrosis, and overaugmentation. The most appropriate management of these complications, including infection, is immediate implant removal and revision surgery once the accompanying inflammation has healed. Occasionally, the patient may experience distress from nasal deformities during the intervention period.

CASE SUMMARY

Herein, we describe the case of a patient who underwent a secondary dorsal augmentation, with a folded dermofat graft harvested from the inguinal area and simultaneous implant removal, successfully preventing dimpling of the nasal deformity.

CONCLUSION

This surgical method can effectively manage implant-related complications following augmentation rhinoplasty using a silicone implant and provide satisfactory patient outcomes.

Key Words: Complications; Nose deformities; Acquired; Rhinoplasty; Dermofat; Surgery; Plastic; Case report

©The Author(s) 2024. Published by Baishideng Publishing Group Inc. All rights reserved.

WJCC | https://www.wjgnet.com

Core Tip: This case report presents noteworthy findings, as we introduce an innovative secondary rhinoplasty technique using a folded dermofat graft to address complications arising from silicone implant augmentation rhinoplasty. This procedure successfully maintained the nasal contour without complications after silicone implant augmentation rhinoplasty. This approach enhances patient satisfaction and provides a valuable solution to challenges associated with traditional methods, making it a promising option in managing complications following augmentation rhinoplasty.

Citation: Kim H, Kim JH, Koh IC, Lim SY. Immediate secondary rhinoplasty using a folded dermofat graft for resolving complications related to silicone implants: A case report. World J Clin Cases 2024; 12(14): 2426-2430 URL: https://www.wjgnet.com/2307-8960/full/v12/i14/2426.htm DOI: https://dx.doi.org/10.12998/wjcc.v12.i14.2426

INTRODUCTION

Various surgical techniques have been developed in Asia to reshape flat, blunt noses into more desired shapes[1,2]. Among these, implant augmentation rhinoplasty has been widely used because it is simple to perform and can produce a wide range of alternative nose shapes [3]. However, this technique can also cause severe complications that require implant removal[4,5]. Correcting a nasal dimpling deformity that occurs following implant removal is challenging when the second procedure is performed following delays owing to complications. Herein, we present an immediate secondary rhinoplasty technique that minimizes dimpling in nasal deformities using a folded dermofat graft harvested from the inguinal area.

CASE PRESENTATION

Chief complaints

The patient complained of pain and discomfort in the nose.

History of present illness

Forty months after the surgery, the dorsum of the nose became erythematous and slightly inflamed, likely caused by excess pressure from the implant.

History of past illness

A 34-year-old woman without any underlying diseases underwent closed reduction of the nasal bone for a nasal bone fracture and simultaneous augmentation rhinoplasty with a silicone implant.

Personal and family history

The patient had no significant past medical history or family history.

Physical examination

Upon admission, the contour of the implant became more conspicuous as the skin at the tip of the nose became thinner (Figure 1).

Laboratory examinations

All results, including white blood cell count, erythrocyte sedimentation rate, and C-reactive protein level, were within the normal range.

Imaging examinations

Not applicable.

FINAL DIAGNOSIS

Nasal tip retraction with inflammation after augmentation rhinoplasty using a silicone implant.

TREATMENT

We highly suspected an infection and a contracture and decided to remove the implant. We scheduled an immediate





Figure 1 Photograph taken before the secondary rhinoplasty, 40 months after the initial rhinoplasty. A: Lateral view; B: Worm's eye view. The skin at the tip of the nose had become thinner, contracture had occurred, and the outline of the implant was visible.

secondary rhinoplasty using a folded dermofat graft harvested from the inguinal area to replace the original implant.

The distance from the nasal root to the nasal tip was 4.7 cm, and a graft double this length was designed for the folded dermofat graft. Using a transcolumellar approach, the implant was exposed by dissecting the cartilage and bone below the cartilaginous plane. The implant and adherent scar tissue were fully removed. The dermofat was harvested from the left inguinal area (approximately 1.0 cm × 9.5 cm) and folded using a 3-0 polydioxanone suture. The folded graft was inserted into the pocket of the nasal dorsum and fixed transcutaneously to the nasal root using a bolster suture (Figure 2). To prevent postoperative infection, a second-generation cephalosporin antibiotic was administered intravenously during the hospital stay for 2 d, followed by a 1-wk course of an oral first-generation cephalosporin antibiotic upon discharge. The columella and bolster stitches were removed on the 5th postoperative day, and those of the intranasal and donor sites were removed on the 12th postoperative day. The wound healed without any complications. Seven months later, the patient presented to our outpatient clinic. The shape of the nose was satisfactory, and no complications were noted (Figure 3).

OUTCOME AND FOLLOW-UP

Seven months later, the shape of the nose was satisfactory without any complications.

DISCUSSION

The nose of an Asian person is characterized by a limited projection of the nasal tip and an ala that is wider than the height of the nose[6]. Rhinoplasty is frequently performed on this nose type. Augmentation rhinoplasty is performed to increase the length and height of the dorsal and tip projections of the nose[2]. Augmentation rhinoplasty with silicone implants is the most widely performed procedure of this type because it helps achieve aesthetic goals for nose shapes relatively easily[3]. However, this surgery can sometimes result in complications, such as implant migration, contour irregularity, implant deviation, infection, extrusion, contracture, and skin lesions[4,5]. In particular, thinning of the skin due to foreign body reactions, scarring, and encapsulation around the implant may result in skin contracture, visibility of the contour of the implant, and even extrusion in severe cases[7].

In cases of complications accompanied by infection, the implant must be removed. However, determining the time for revision rhinoplasty can be challenging. A secondary rhinoplasty is recommended several months after implant removal after signs of infection are absent[8]. However, correction can be complex if dimpled nasal deformities, including excessive collapse and contracture, occur following implant removal. In the interim period, patients must tolerate this deformity and may experience psychological discomfort before undergoing a secondary rhinoplasty. Therefore, removing the implant and performing a secondary rhinoplasty concurrently is ideal.

Dermofat grafts have several advantages. For example, the autologous augmentation material comprises a fullthickness dermis and subcutaneous tissues. Since dermofat grafts are autologous tissues, they are relatively more susceptible to infection and foreign body reactions than other implant materials. The degree of volume maintenance at the surgical site may decrease over time. Depending on the location of the donor site, differences may occur between the thickness and fat density of the dermis[9,10]. In this study, we addressed these shortcomings using the "folded" dermofat method, which involves folding the collected dermofat in half. In general, the gluteal fold is the preferred donor site because of the presence of dense fat and a thick dermis[10,11]. However, the operative time may be prolonged when using this approach because the patient must be repositioned during the surgery. In addition to a longer surgical time, the cost burden to the patient is increased owing to the need for a longer duration of general anesthesia, and the patient

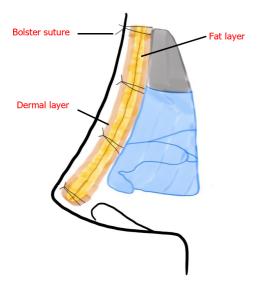


Figure 2 Schematic diagram of the procedure. The dermofat graft was folded in half, with the fat layer on the inside and the dermal layer facing outward. The folded graft was inserted into the pocket of the nasal dorsum and fixed transcutaneously on the nasal root using a bolster suture.

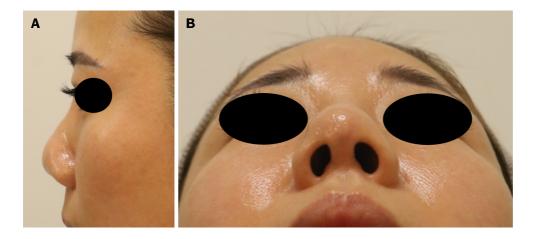


Figure 3 Photograph taken seven months after the secondary rhinoplasty. A: Lateral view; B: Worm's eye view. Despite removing the implant, the nasal height was not significantly depressed and severe deformity did not occur as the contracture at the nasal tip was corrected.

may experience additional discomfort. The resultant scars can also be conspicuous if the patient wears a bikini. Because this part of the body continuously bears weight while sitting, wound healing can be slow and the incidence of complications, such as wound dehiscence, is high. When a dermofat graft is performed using the gluteal fold as the donor site, patients often complain of a blunt protruding nose because the dermis is excessively thick. For this procedure, we chose the inguinal area. Relatively large grafts can be obtained from this region, owing to the laxity of the skin, which makes it easier to create a more natural shape. Harvesting and grafting of dermofat can also be performed concurrently with the patient in the supine position, resulting in a very short operative time and high patient satisfaction. Because the dermis of the inguinal area is relatively thin[9], we were able to secure a satisfactory outcome with a sufficient nose height using this approach.

CONCLUSION

The folded dermofat graft method can be used to effectively manage implant complications following augmentation rhinoplasty with a silicone implant. In our case, a high level of patient satisfaction was achieved using this method.

FOOTNOTES

Author contributions: Koh IC contributed to conceptualization, methodology, software, and validation; Lim SY contributed to conceptualization, validation, manuscript writing and editing, and supervised the study; Kim JH contributed to validation, formal



Kim H et al. Folded dermograft secondary rhinoplasty

analysis, investigation, resources, data curation, manuscript writing and editing, project administration, and funding acquisition; Kim H contributed to visualization, manuscript writing and editing, and supervised the study; all authors have read and approved the final manuscript.

Informed consent statement: Informed written consent was obtained from the patient for publication of this report and any accompanying images.

Conflict-of-interest statement: All authors declare that they have no conflict of interest to disclose.

CARE Checklist (2016) statement: The authors have read the CARE Checklist (2016), and the manuscript was prepared and revised according to the CARE Checklist (2016).

Open-Access: This article is an open-access article that was selected by an in-house editor and fully peer-reviewed by external reviewers. It is distributed in accordance with the Creative Commons Attribution NonCommercial (CC BY-NC 4.0) license, which permits others to distribute, remix, adapt, build upon this work non-commercially, and license their derivative works on different terms, provided the original work is properly cited and the use is non-commercial. See: https://creativecommons.org/Licenses/by-nc/4.0/

Country/Territory of origin: South Korea

ORCID number: Hoon Kim 0000-0003-1261-9743; Jong Hyup Kim 0000-0002-4307-5534; In Chang Koh 0000-0002-5902-5670; Soo Yeon Lim 0000-0002-2954-2191.

S-Editor: Liu JH L-Editor: A P-Editor: Chen YX

REFERENCES

- Wang X, Yan Q, Qiao Z, Deng Y, Li C, Sun Y, Xiong X, Meng X, Li W, Yi Z, Fang B. A New Definition for Alar Flare Based on "Alar Flare 1 Angle". Aesthetic Plast Surg 2023; 48: 855-861 [PMID: 37256299 DOI: 10.1007/s00266-023-03396-x]
- 2 Lee KC, Kwon YS, Park JM, Kim SK, Park SH, Kim JH. Nasal tip plasty using various techniques in rhinoplasty. Aesthetic Plast Surg 2004; 28: 445-455 [PMID: 15580432 DOI: 10.1007/s00266-004-0020-x]
- 3 Zeng Y, Wu W, Yu H, Yang J, Chen G. Silicone implant in augmentation rhinoplasty. Ann Plast Surg 2002; 49: 495-499 [PMID: 12439017 DOI: 10.1097/0000637-200211000-00009]
- Tham C, Lai YL, Weng CJ, Chen YR. Silicone augmentation rhinoplasty in an Oriental population. Ann Plast Surg 2005; 54: 1-5; discussion 6 4 [PMID: 15613873 DOI: 10.1097/01.sap.0000141947.00927.49]
- Choi JY. Complications of Alloplast Rhinoplasty and Their Management: A Comprehensive Review. Facial Plast Surg 2020; 36: 517-527 5 [PMID: 33368076 DOI: 10.1055/s-0040-1717082]
- Aung SC, Foo CL, Lee ST. Three dimensional laser scan assessment of the Oriental nose with a new classification of Oriental nasal types. Br J 6 Plast Surg 2000; 53: 109-116 [PMID: 10878832 DOI: 10.1054/bjps.1999.3229]
- Suh MK, Lee KH, Harijan A, Kim HG, Jeong EC. Augmentation Rhinoplasty With Silicone Implant Covered With Acellular Dermal Matrix. J 7 Craniofac Surg 2017; 28: 445-448 [PMID: 27755446 DOI: 10.1097/SCS.00000000003225]
- 8 Jang YJ, Kim DY. Treatment Strategy for Revision Rhinoplasty in Asians. Facial Plast Surg 2016; 32: 615-619 [PMID: 28033636 DOI: 10.1055/s-0036-1594254
- Choi MH, He WJ, Son KM, Choi WY, Cheon JS. The efficacy of dermofat grafts from the groin for correction of acquired facial deformities. 9 Arch Craniofac Surg 2020; 21: 92-98 [PMID: 32380808 DOI: 10.7181/acfs.2020.00038]
- Na DS, Jung SW, Kook KS, Lee YH. Augmentation rhinoplasty with Dermofat graft & fat injection. Arch Plast Surg 2011; 38: 53-62 [DOI: 10 10.14730/aaps.2020.02341]
- Jeong HY, Cho KS, Bae YC, Seo HJ. Simple method of saddle nose correction: A double-layer dermofat graft: case report. Medicine (Baltimore) 2022; 101: e30300 [PMID: 36107523 DOI: 10.1097/MD.00000000030300]



WJCC | https://www.wjgnet.com



Published by Baishideng Publishing Group Inc 7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA Telephone: +1-925-3991568 E-mail: office@baishideng.com Help Desk: https://www.f6publishing.com/helpdesk https://www.wjgnet.com

