# **BODY CONTOURING**

VIDEO COMMENTARY

### Commentary on: Changes in Glucose Control and Lipid Levels Following Trunk- Based **Body Contouring Surgery in Postbariatric and Nonbariatric Patients**

12	M. Shuja	Shafqat,	MD; and	l Kevin H.	. Small, MD	, FACS
----	----------	----------	---------	------------	-------------	--------

Dr Shafqat is a plastic surgeon, and Dr Small is the director of plastic surgery at a private practice in Roslyn Heights, NY, USA.

#### Corresponding author: Dr Kevin H. Small, 125 Mineola Ave Suite 200, Roslyn Heights, NY

- 11577, USA
- E-mail: kevinsmallmd@gmail.com

2

Disclosures: The authors declared no potential conflicts of interest with respect to the research, 

- authorship, and publication of this article.
- Funding: The authors received no financial support for the research, authorship, and publication
- of this article.

1 The effect of weight loss and bariatric surgery on comorbidities is well documented. In this

- 2 article, the authors look at the effects of trunk-based body contouring (BC) surgery on metabolic
- 3 changes, specifically on glucose and lipid levels, in non-bariatric and bariatric surgery patients.<sup>1</sup>
- 4 The results of the study can assist with pre-operative patient counseling and highlight the need
- 5 for further study in this area (Video).

6 The authors note a limitation that that they do not have a bariatric only comparable

- 7 cohort. They also note that their post-bariatric cohort of BC patients regained significantly more
- 8 weight than non-bariatric patients which would affect the results of this study. This contrasts
- 9 with other studies which show post-bariatric BC patients have improved % total weight loss.<sup>2,3</sup>
- 10 In addition, most of the patients still had higher BMI, gastric bypass over sleeve gastrectomy,

and none had posterior contouring which can remove large excess fat stores in the flanks,<sup>4</sup> all of
which would further affect weight control and metabolism.

We believe this is an important study to demonstrate that BC procedures removing skin and subcutaneous fat may not have the same metabolic effect as surgical or nonsurgical weight loss,<sup>5</sup> however, further study is needed. This is important when counseling patients about these procedures.

17

## 18 Supplemental Material

19 This article contains supplemental material located online at <u>www.asjopenforum.com</u>.

20 21

## 22 REFERENCES

Henderson JT, Koenig ZA, Woodberry KM. Changes in Glucose Control and Lipid
 Levels Following Trunk-Based Body Contouring Surgery in Postbariatric and Non-bariatric
 Patients. *Aesthet Surg J Open Forum*. 2022;4:ojac076. doi: 10.1093/asjof/ojac076

26 27

28

29

 De Vries CEE, Kalff MC, van Praag EM, et al. The Influence of Body Contouring Surgery on Weight Control and Comorbidities in Patients After Bariatric Surgery. *Obes Surg.* 2020;30(3):924-930.

30

1	3. Sjostrom L, Lindroos AK, Peltonen M, et al. Lifestyle, diabetes, and cardiovascular				
2	risk factors 10 years after bariatric surgery. N Engl J Med. 2004;351(26):2683-93.				
3					
4	4. Balague N, Combescure C, Huber O, et al. Plastic surgery improves long-term				
5	weight control after bariatric surgery. Plast Reconstr Surg. 2013;132(4):826-33.				
6					
7	5. Wiser I, Heller L, Spector C, et al. Body contouring procedures in three or more				
8	anatomical areas are associated with long-term body mass index decrease in massive				
9	weight loss patients: a retrospective cohort study. J Plast Reconstr Aesthet Surg.				
10	2017;70(9):1181–5.				
11 12	Audio Transcription:				
13					
14 15 16	Thank you so much to the Aesthetic Surgery Journal for allowing us to give this video commentary on this interesting article. My name is Dr. Kevin Small, I'm the director of Plastic Surgery for NYBG Plastic Surgery, a subsidiary of New York Bariatric Group.				
17					
18 19	And I'm Dr. Shuja Shafqat, plastic surgeon at NYBG Plastic Surgery and New York Bariatric Group.				
20					
21 22 23	The article, "Changes in Glucose Control and Lipid Levels Following Trunk Based Body Contouring in Post-Bariatric and Nonbariatric Patients" is a really excellent article looking at the metabolic effects of trunk based body contouring on glucose and lipid levels.				
24					
26 28	The authors looked at their cohort of post-bariatric surgery and nonbariatric patients that they followed for an average of 3.3 years, which an excellent timeline for monitoring these patients,				
<del>2</del> 8 29	and they measured their glucose levels and lipid levels before and after body contouring. They				
<u>3</u> 9	found that all patients had mild increases in glucose levels with a decrease in total cholesterol				
32	levels in patients who hadn't had bariatric surgery versus an increase in post-bariatric patients.				
33	Will the interaction is the arthur mention that they multipled enother study, which is in anos				
34 35	What's interesting is the authors mention that they published another study, which is in press, showing that their post-bariatric cohort of patients regained significantly more weight than their				
36	nonbariatric patients, which would affect the results of the study.				
37	K Y				
38	In addition to Dr. Shafqat's comments, there are a couple limitations of the study to mention.				
39 40	The author's noted they do not have a bariatric only comparable cohort. Also, most of the patients still had a higher BMI. In our practice, our post-bariatric patients typically have a body				
40 41	mass index of less than 30, unless they've lost over 100 lbs. Also, many patients had gastric				
42	bypass instead of sleeve gastrectomy and this would definitely affect their metabolism.				

- 1 Also, we noticed that none of these patients had posterior contouring, like a lower body lift or
- 2 belt lipectomy, and as we know these procedures can remove a lot of excess fat stores and
- 3 subcutaneous fat around the flanks. And we know that excess fat stores can cause metabolic
- 4 changes. So, removing that extra fat through a lower body lift or belt lipectomy can definitely
- 5 affect the patient's metabolic profile.
- 6
- 7 Not only did they not discuss posterior contouring but the authors did not mention if any of these
- 8 patients had liposuction in the panniculectomy or the abdominoplasty. Liposuction is an
- 9 important adjunct for body contouring procedures. It removes these focal areas of unwanted fat
- 10 and that would be a confounding variable for the outcomes of this study if these procedures were
- 11 performed in conjunction with panniculectomy or the abdominoplasty.
- 12
- 13 Overall, this is a very interesting study looking at some of the metabolic changes that occur
- 14 after trunk based body contouring. I think it's important to note that these procedures
- removing skin and subcutaneous fat really don't have the same metabolic changes that we
- 16 know that weight loss does either with surgical or non surgical means and I think this is really
- 17 important when counseling patients.
- 18
- 19 We have a lot of patients that come to our practice that are looking for body contouring
- 20 procedures as a weight loss procedure and I think this article serves as an adjunct to tell
- 21 patients that a body contouring procedure is not a weight loss procedure and patient's should
- 22 be as close to their ideal body mass index before having a body contouring procedure because
- 23 it really does not have significant impact on their metabolic outcomes.
- 24 25



Video still 165x100 mm ( x DPI) Downloaded from https://academic.oup.com/asjopenforum/advance-article/doi/10.1093/asjof/ojad001/6974657 by guest on 09 January 2023