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The features marked with a star (*) are based entirely on material taken straight from standard research (and other Official and Therefore Always Correct) literature. Many of the other articles are genuine, too, but we don't know which ones.

ANNALS OF

IMPROBABLE RESEARCH



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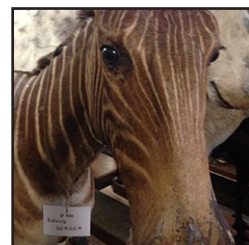
On the Front Cover

Stylized drawing, by Nan Swift, of a detail from a forensic report. See page 16.



On the Back Cover

A deceased quagga in storage in the Vienna Natural History Museum. Photo by A.S. Kaswell.



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Some Coming Events

See IMPROBABLE.COM for details of these and other events:

September 12, 2019

Ig Nobel Prize ceremony and webcast, Harvard U

September 14, 2019

Ig Informal Lectures and webcast, MIT

September 23, 2019

BEworks, Ottawa, Canada

October 8, 2019

Red Hat, Boston, MA

October 2019

Tanween, Dhahran, Saudi Arabia

October 25, 2019

APS, Lubbock, TX

November 29, 2019

“Science Friday” radio broadcast

January 12, 2020

Beijing, China

January 2020

Arisia, Boston, MA

February 2020

AAAS, Seattle, WA

March/April 2020

Ig Nobel EuroTour



Where There's More

There's always new improbable — it's not what you expect! — stuff on the **Improbable Research blog** at IMPROBABLE.COM

FAT RELOCATION RESEARCH

Re-engineering with natural materials

compiled by Stephen Drew, Improbable Research staff

Buttocks: Fat Removal and Re-Placement Innovation

“Buttock Augmentation: A Novel Alternative to a Lengthy Procedure,” George Solomon, *The American Journal of Cosmetic Surgery*, vol. 33, no. 3, 2016, pp. 145-151. The author, at Solomon Cosmetic Center, Palm Harbor, Florida, explains:

Fat transfer to enhance buttocks is becoming a popular procedure. The process of transferring a large amount of fat to the tissue is tedious, time consuming, and at times, cumbersome. Additionally, it requires more staff and a lot of supplies. This paper presents an innovative method to harvest the fat using a power-assisted system in a sterile closed canister. Subsequently, the fat is transferred to the desired tissue using the same power-assisted system. This method is safe, effective, economic, time efficient and provides less risk of infection than the traditional method.

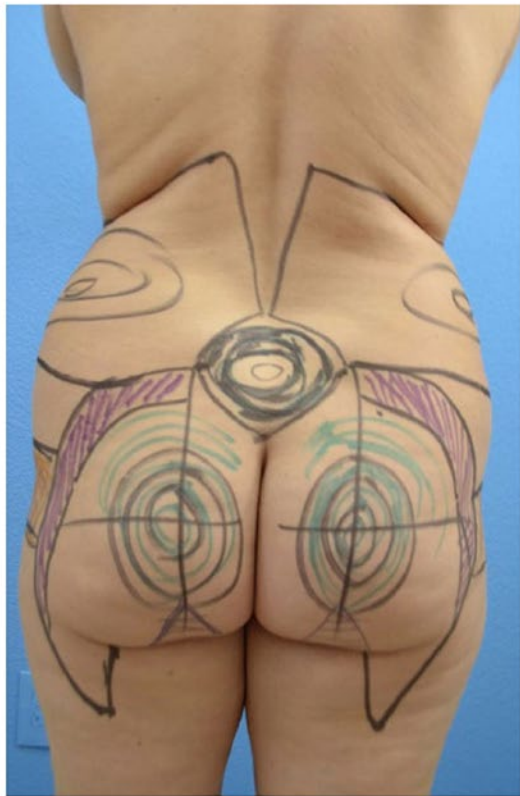


Figure 1. Patient markings with area to be sculpted and areas to be reinjected.



Figure 3. Large volume canister partially assembled.



Detail from the study “Buttock Augmentation: A Novel Alternative to a Lengthy Procedure.”

continued >

FAT RELOCATION RESEARCH [CONTINUED]

Fat-Grafting: '6-Pack' Abdomen, Apparently

“Utilizing the Power of Fat Grafting to Obtain a Naturally-Appearing Muscular ‘6-Pack’ Abdomen,” Douglas S. Steinbrech and Sammy Sinno, *Aesthetic Surgery Journal*, vol. 36, no. 9, 2016, pp. 1085-1088. The authors, at Gotham Plastic Surgery, New York City, and New York University Medical Center, explain:

In the modern age of fitness, we find that patients are increasingly interested in a fitter, more sculpted look with greater definition to the abdominal musculature. Currently we are experiencing a “golden age” of plastic surgery body contouring with new innovations by thought leaders, including fat grafting, which are completely raising the bar of postoperative results that can now be delivered to the patients in terms of appearing youthful and sculpted yet natural.... Here we present the senior author’s (D.S.S) technique for achieving superior results in abdominal contouring using selective liposuction with fat grafting....

Average volumes of fat placed into each area are as follows: lower “six pack,” 42 cc each; middle “six pack,” 58 cc each; upper “six pack,” 55 cc each; and serratus muscle, 31 cc each. The liposuction sites are closed with 5-0 black nylon to prevent egress of injected fat. Lower pelvic incisions remain open for drainage....

The senior author began incorporating this procedure into his practice in 2013. It has been performed on 43 men and 2 women, with an age range of 22 to 58 years.

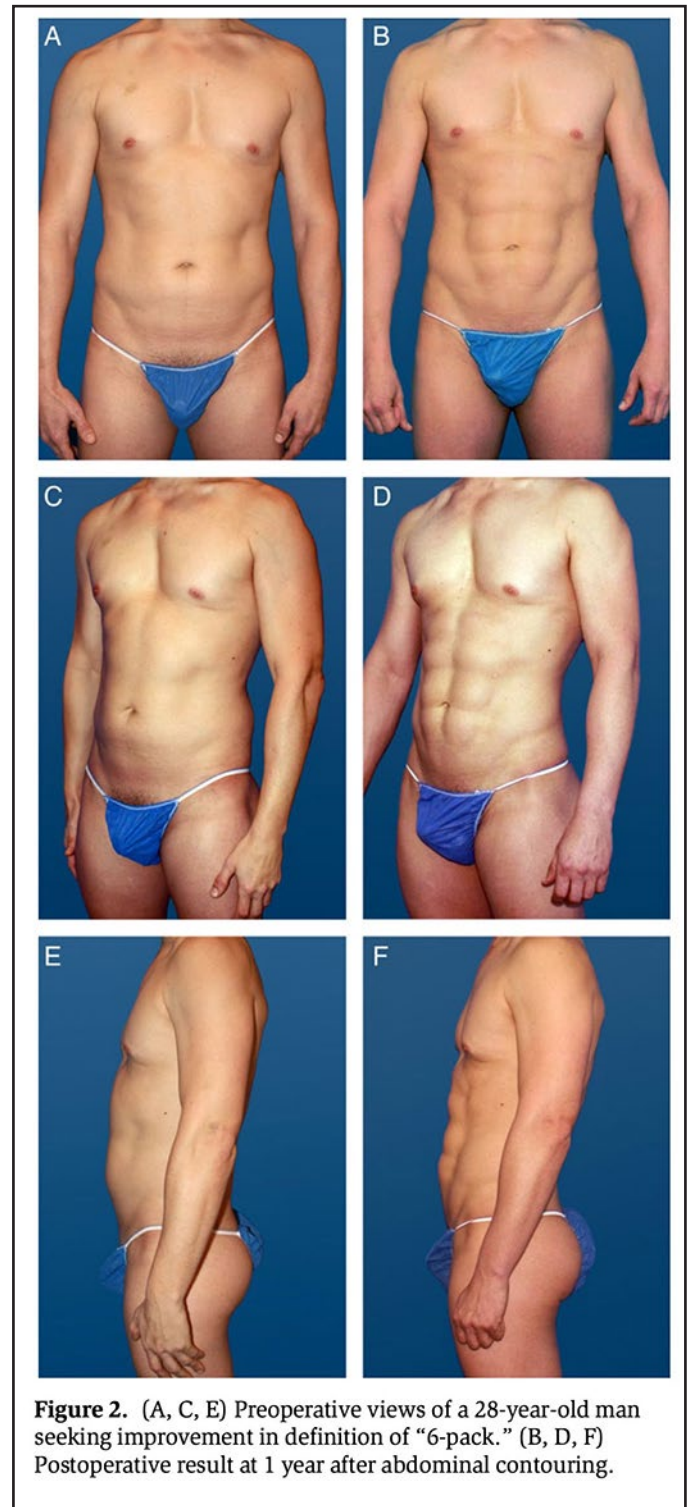


Figure 2. (A, C, E) Preoperative views of a 28-year-old man seeking improvement in definition of “6-pack.” (B, D, F) Postoperative result at 1 year after abdominal contouring.

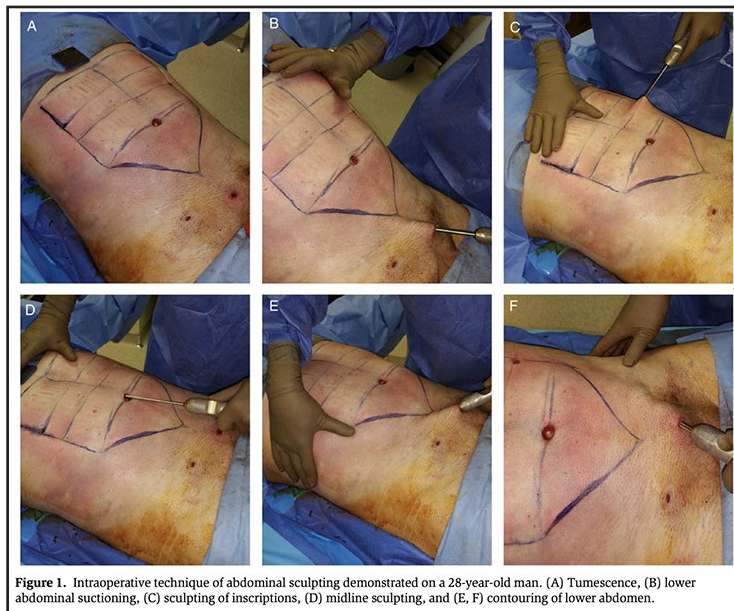


Figure 1. Intraoperative technique of abdominal sculpting demonstrated on a 28-year-old man. (A) Tumescence, (B) lower abdominal suctioning, (C) sculpting of inscriptions, (D) midline sculpting, and (E, F) contouring of lower abdomen.

Detail from the study “Utilizing the Power of Fat Grafting to Obtain a Naturally-Appearing Muscular ‘6-Pack’ Abdomen.”

Further detail from the study “Utilizing the Power of Fat Grafting to Obtain a Naturally-Appearing Muscular ‘6-Pack’ Abdomen.”