

Push-to-Spin: a novel device to make surgical procedures more efficient

ID: 04315

Featured Innovators: Jeffrey Gusenoff, MD, Beth Gusenoff, DPM

Small volume fat grafting is routinely performed to the face, breast, hands, or feet with 200M annual cases performed world-wide. Liposuction is performed from an area of excess, and transferred to the deficient area. The standard-of-care for small volume fat graft processing including gauze rolling or centrifuging is tedious and time consuming, costing surgeons over \$10,000 a day in lost revenue. Push-to-Spin is an all in one device that allows for liposuction, processing and re-injection directly into the patient. No assistant and no external fat manipulation needed.

Technology Description

Push-to-Spin is a novel device with an internal rotating chamber that when pushing the plunger, spins the fat like a salad spinner, drying it out. This all-in-one device allows for fat to be aspirated, the internal chamber spins to push out the oil and water layers, leaving behind dry fat for injection back into the patient. Easy processing eliminates the need for an assistant, additional tubing, vacuums, or centrifuges, and exposure contamination. This device can be used by plastic surgeons, ENTs, orthopaedic surgeons, breast surgeons, and other cosmetic medicine providers offering small volume fat injections.

Advantages

- No assistant (\$21/hour)
- Increase patient volume (2+ patients a day)
- Increase practice revenue (\$5000/procedure, \$10,000+/day)
- Free of accessories (i.e. tubing, vacuums, centrifuges, gauze, syringe caps) (\$200/procedure)
- Reduced mess and improved sterility (more cases in office = save \$1500/hospital and anesthesia fees/case)

Applications

- Cosmetic small volume fat grafting: face, breast, hand, feet
- Reconstructive small volume fat grafting: breast cancer, head and neck cancer, amputation, trauma, diabetic ulcers



	Revolve	LipoGrafte	Tissu-Trans	Lipivage	P2S
1. Small Volume	✗	✗	✗	✓	✓
2. Free of Accessories	✗	✗	✗	✗	✓
3. Fast	✗	✓	✗	✗	✓
4. Cheap	✗	✗	✗	✗	✓
5. No Assistant	✗	✗	✗	✗	✓

(Stage of Development

Prototyping

IP Status

PCT Application No. PCT/US2018/048278 "Methods and Devices for Use in Treatment of Plantar Fasciitis and Fat Grafting" filed on 8/28/2018

Notable Mentions

Clinical and Translational Science (CTSI) Accelerate Innovation Program (AIP) (\$10,000)

Coulter Translational Research Partners II Program (\$50,000)

University of Pittsburgh

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