Supplementary Online Content

Wu R, Yang X, Jin X, et al. Three-dimensional volumetric analysis of 3 fat-processing techniques for facial fat grafting: a randomized clinical trial. *JAMA Facial Plast Surg*. Published online January 11, 2018. doi:10.1001/jamafacial.2017.2002

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Percentage volume maintenance of different fat-processing groups in 30 cases

				Injected	Percentage volume maintenance			ance
N	Gender	Age	Group	Fat				
		(y)		Volume	Post-1m	Post-3m	Post-6m	Post-12m
			005	(ml)	50.400/	40.000/	40.050/	
1	Female	24	CPF	15	52.13%	48.39%	42.95%	-
2	Male	22	CPF	32	45.82%	41.91%	39.65%	38.51%
3	Female	19	CPF	35	45.06%	44.24%	43.51%	41.57%
4	Male	21	CPF	2.8	54.00%	51.82%	47.93%	46.14%
5	Female	25	CPF	37	43.98%	42.09%	39.71%	-
6	Female	27	CPF	15	45.90%	43.01%	40.69%	38.79%
7	Female	45	CPF	2	54.65%	48.10%	45.40%	44.30%
8	Female	22	CPF	17	49.96%	47.57%	46.17%	-
9	Female	25	CPF	30	47.76%	43.13%	42.04%	41.54%
10	Male	28	CPF	40	48.90%	42.29%	39.00%	37.99%
11	Female	25	С	14	39.46%	31.88%	30.83%	-
12	Female	21	С	31	42.45%	41.83%	36.20%	34.22%
13	Female	23	С	33	40.25%	36.36%	37.21%	35.48%
14	Male	19	С	45	37.51%	35.89%	34.57%	-
15	Male	39	С	40	43.72%	42.24%	40.50%	-
16	Female	20	С	32	45.47%	44.37%	37.95%	36.56%
17	Female	27	С	18	37.94%	34.84%	32.94%	31.30%
18	Female	33	С	16	38.63%	34.20%	30.01%	29.11%
19	Female	19	С	29	41.87%	39.08%	37.83%	36.32%
20	Female	21	С	18	45.42%	42.81%	39.96%	38.11%
21	Female	24	S	14	41.43%	40.70%	37.24%	35.80%
22	Male	10	S	40	31.61%	28.68%	25.88%	25.20%
23	Female	10	S	40	35.80%	33.06%	32.90%	32.06%
24	Female	23	S	40	35.81%	31.48%	30.62%	29.85%
25	Female	16	S	48	37.64%	32.99%	28.51%	28.36%
26	Female	10	S	38	44.61%	42.45%	32.20%	31.73%
27	Female	11	S	25	38.17%	35.00%	34.54%	34.12%
28	Female	28	S	30	32.46%	32.30%	28.78%	28.04%
29	Female	20	S	25	36.80%	32.58%	31.66%	-
30	Male	10	S	22	35.21%	31.04%	28.10%	_
	IVIGIO	10			30.2170	J1.U-7/0	20.1070	

CPF: Cotton pad filtration, C: Centrifugation, S: Sedimentation.

eTable 2. Percentage Volume Maintenance of the Fat-Processing Groups at 1-, 3-, 6-, and 12-Month Follow-up

	Volume Maintenance, %				
Group —	1 mo	3 mo	6 mo	12 mo	
Cotton pad filtration(n=10)					
Range	44-55	42-52	39-48	38-46	
Mean(SD)	49(4)	45(3)	43(3)	41(3)	
Centrifugation(n=10)					
Range	38-45	32-44	30-40	29-38	
Mean(SD)	41(3)	38(4)	36(4)	34(3)	
Sedimentation(n=10)					
Range	32-45	29-42	26-37	25-36	
Mean(SD)	37(4)	34(4)	31(4)	31(3)	

eTable 3. Covariance analysis (grouping, gender, age, BMI-1m factor)

Variables	DOF	Mean square	F value	P value
Grouping factor	2	0.02811658	24.96	<.0001
Gender factor	1	0.00000556	0.00	0.9446
Age factor	1	0.00138538	1.23	0.2784
BMI-1m	1	0.00333061	2.96	0.0984

eTable 4. Covariance analysis (grouping, gender, age, BMI-3m factor)

		(0 0 0 0 0 0 0 0 0 0 	<u> </u>	
Variables	DOF	Mean square	F value	P value
Grouping factor	2	0.02617171	16.39	<.0001
Gender factor	1	0.00003142	0.02	0.8896
Age factor	1	0.00013883	0.09	0.7706
BMI-3m	1	0.00246405	1.54	0.2261

eTable 5. Covariance analysis (grouping, gender, age, BMI-6m factor)

Variables	DOF	Mean square	F value	P value
Grouping factor	2	0.02536407	20.11	<.0001
Gender factor	1	0.00032107	0.25	0.6185
Age factor	1	0.00001378	0.01	0.9176
BMI-6m	1	0.00055745	0.44	0.5125

eTable 6. Covariance analysis (grouping, gender, age, BMI-12m factor)

Variables	DOF	Mean square	F value	P value
Grouping factor	2	0.01322109	12.38	0.0008
Gender factor	1	0.00126062	1.18	0.2957
Age factor	1	0.00060009	0.56	0.4659
BMI-12m	1	0.00002791	0.03	0.8739



eFigure 1A. pre-sedimentation



eFigure 1B. post-sedimentation



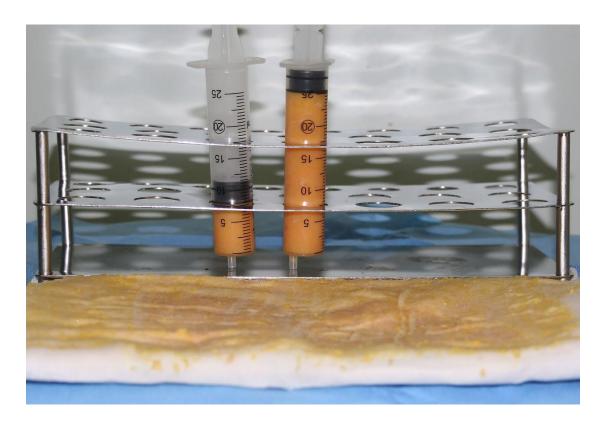
eFigure 1C. pre-centrifugation



eFigure 1D. post-centrifugation



eFigure 1E. the cotton pad filtering



eFigure 1F. post-filtration (the residual fat tissue left on the cotton pad was collected again for implantation)

Dimensions	
Minimum dimensions	-52.5837
Maximum dimensions	27.8164
Dimension delta	80.4001
Volume	15769, 8578

eFigure 2. facial volumetric differences of the patient at post-1m

Dimensions	
Minimum dimensions	-52.5837
Maximum dimensions	27.8164
Dimension delta	80.4001
Volume	15483, 8786

eFigure 3. facial volumetric differences of the patient at post-3m

Dimensions	
Minimum dimensions	-52, 5837
Maximum dimensions	27.8164
Dimension delta	80.4001
Volume	15227.0540

eFigure 4. facial volumetric differences of the patient at post-6m

Dimensi		
Minimum	-24.4317	-51.2828
Maximum	34. 2450	12.7043
Dimensio	58.6767	63.9871
Volume	14551. 1048	

eFigure 5. facial volumetric differences of the patient at post-12m