First-hand Clinical Experiences with MFU-V 2.0: A Pilot Case Series in an Asian population

Tuck Wah Siew[1], Joyce Teng Ee Lim[2], Yanni Xu[3]

1 Radium Medical Aesthetics, Singapore. 2 Joyce Lim Skin & Laser Clinic, Singapore. 3 The Urban Clinic Medical Aesthetics, Singapore.

Background

Microfocused ultrasound with real-time visualization (MFU-V) is well-established as a safe and effective non-invasive modality for skin lifting.[1] A next-generation device (MFU-V 2.0) featuring enhanced imaging precision and improved operator usability was recently introduced.

Here, we report experiences from a pilot case series (n=30) in Singapore using the updated device to improve submental and lower face skin laxity.

Observations

Methods

Treatment was based on the See-Plan-Treat approach, a customized dual-depth treatment that targets fibrous and deep dermal layers based on each patient's unique anatomy. All included participants had mild-to-severe sagging on the Merz Aesthetic Scales for Jawline and Neck Volume[2,3] and received ≥ 650 treatment lines.

Efficacy

- Majority of participants demonstrated response (≥1-point improvement) in neck volume and jawline laxity (**Fig 1**).
- Pre- and post-treatment photographs of a representative case are presented in **Fig 2**.
- Subgroup analyses did not detect any differences in response rates based on Fitzpatrick skin type, gender, age, body mass index (**Table 1**).
- GAIS improvements were reported by 100% of subjects and physicians.

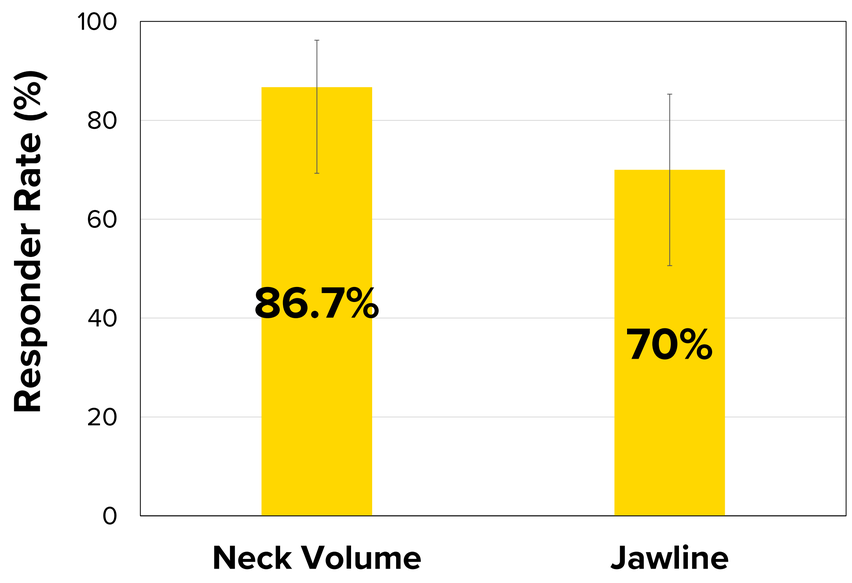

Figure 1. Responder rates for neck volume and jawline with 95% confidence intervals.

Table 1. Subgroup analyses of responders for neck volume or jawline laxity

Demographic		N	Neck Volume Responder (%)	p	Jawline Responder (%)	p
Gender	F	25	84%	0.90	64%	0.41
	M	5	100%		100%	
BMI (kg/m^2)	<25	18	88.9%	1.0	88.9%	0.06
	≥25	12	83.3%		41.7%	
Age (y)	35-44	18	88.9%	0.30	66.7%	0.41
	45-54	7	100.0%		57.1%	
	55-64	5	60.0%		100%	

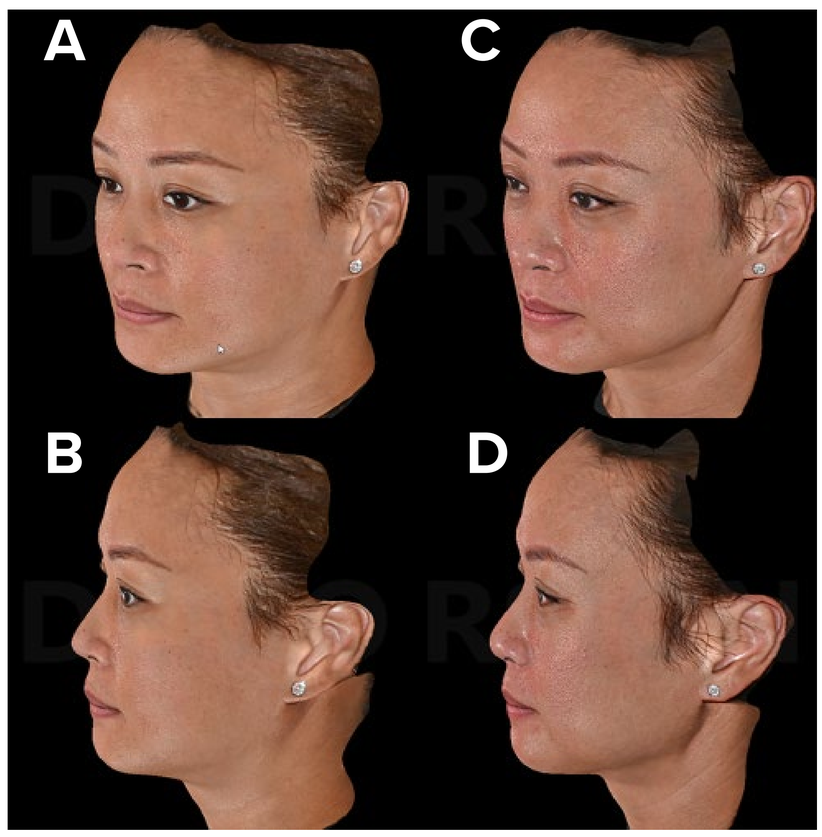

Figure 2. Photographs of a representative case taken prior to treatment (A and B) and at 90 days follow up (C and D), demonstrating a slimmer and sharper face with a more defined jawline and less laxity under the chin.

Tolerability and safety

Treatment was well-tolerated. The mean pain score was 4.50, representing an improvement over previous studies with the legacy device employing similar treatment protocols.[4,5]

The first documented case series of the MFU-V 2.0 device confirms its safety and effectiveness in improving submental and lower face skin laxity across varying patient demographics in Asian patients

1. Fabi SG et al. J Drugs Dermatol 2019; 18: 426-432. 2. Sattler G et al. Dermatologic Surgery 2012; 38: 343-350. 3. Narins RS et al. Dermatologic Surgery 2012; 38: 333-342. 4. Oni G et al. Aesthetic surgery journal 2014; 34 7: 1099-1110. 5. Wood E et al. J Drugs Dermatol 2024; 23: 249-254.