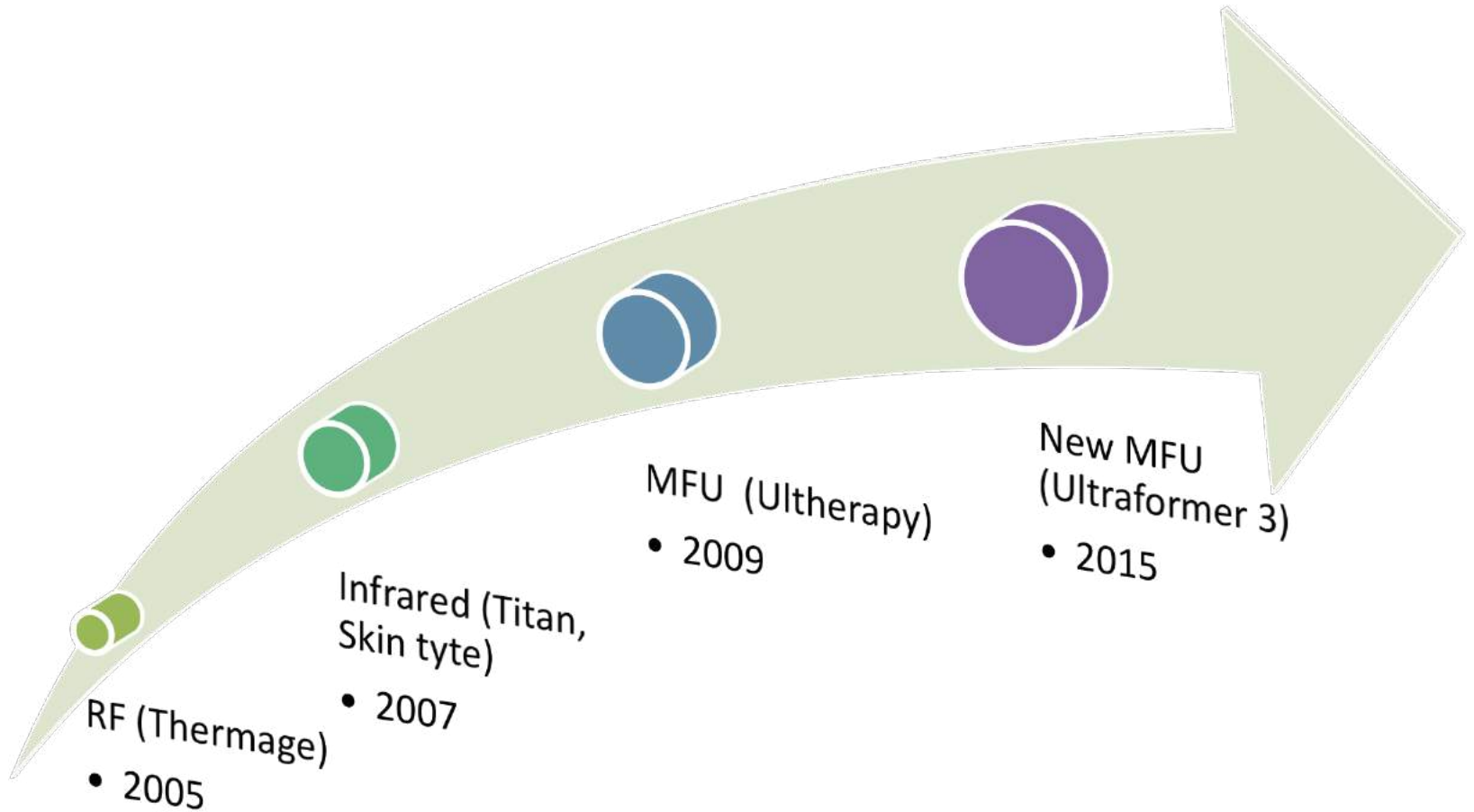


ULTRAFORMER III

ASAPS 2016

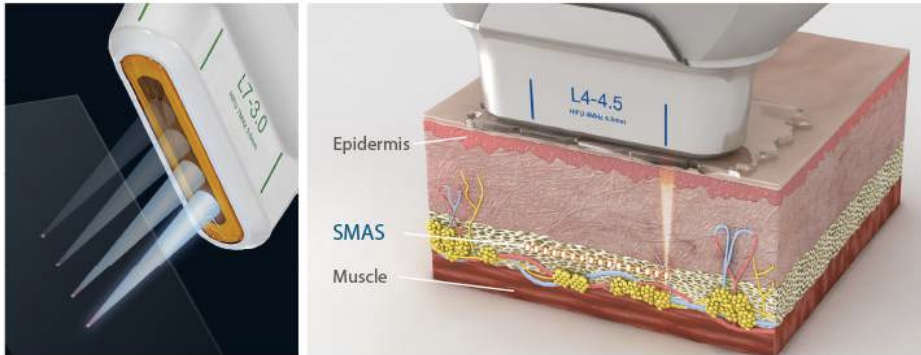
Dr. Adrian Lim

Skin tightening timeline



New MFU

- Non-invasive
- Gets to SMAS
 - 1.5mm to 4.5mm depth *



- Non-invasive skin tightening

*Suh et al. Comparative histometric analysis of the effect of high-intensity focused ultrasound and radiofrequency on the skin. J cosmetic laser therapy, 2015 online: 1-7.

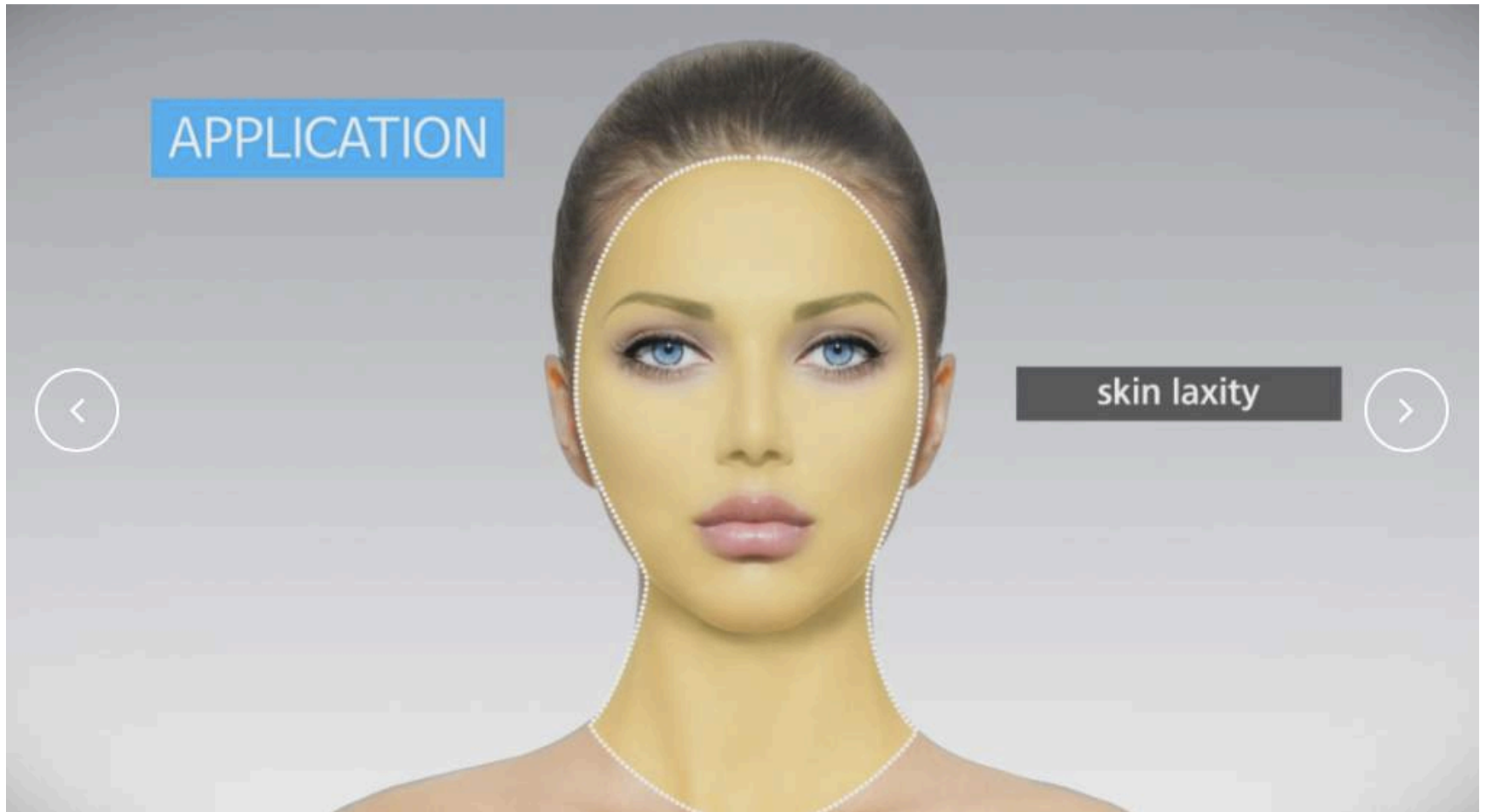
New MFU*

- Claims
 - Rapid shot delivery
 - Higher peak power (dual engine)
 - Less pain
 - More effective
 - Faster
 - Low running cost



* Ultraformer-3

General application



Target areas: lower face and neck



Ultraformer study

- Aim
 - Evaluate safety and efficacy of new MFU
 - Mandibular and neck contouring
- Method
 - 20 prospective patients*
 - Treatment to lower face and neck (400+ 'lines')**
 - Follow-up: up to 6 months
 - Patient satisfaction survey
 - Blinded physician rating
- Inclusion
 - > 40yo
 - M & F
- Exclusion
 - No skin tightening last 12m
 - No lower face filler/ btx last 6m

* Discounted fee for participating in study

** No. of lines & treatment depth:

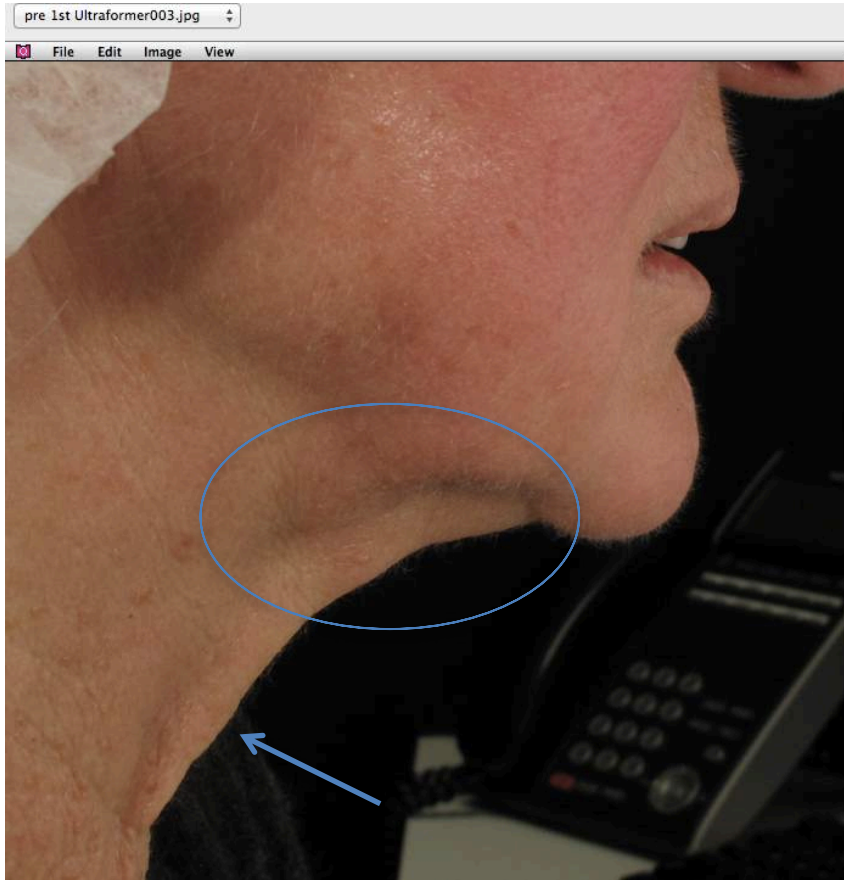
Physician rating of 2-D photos

- 2 blinded dermatologists
 - Identify baseline vs post-procedure photos
 - Rate the degree of improvement (laxity score):
 - 0 = no change
 - 1 = mild tightening
 - 2 = moderate tightening
 - 3 = marked tightening

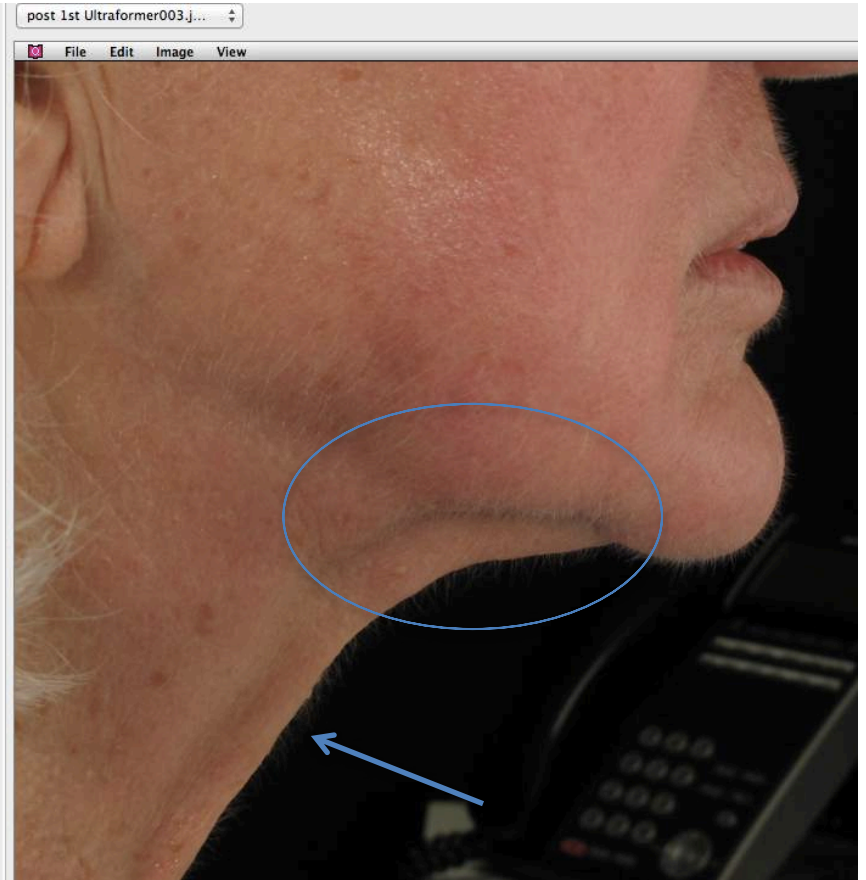
Results (1)

- 19 females, 1 male
- Age range: 49-76 (mean 58.5yo)
- 72.5% of patients demonstrated improvement *immediately* post-procedure on photo-rating by blinded dermatologists (x 2)

69yo F

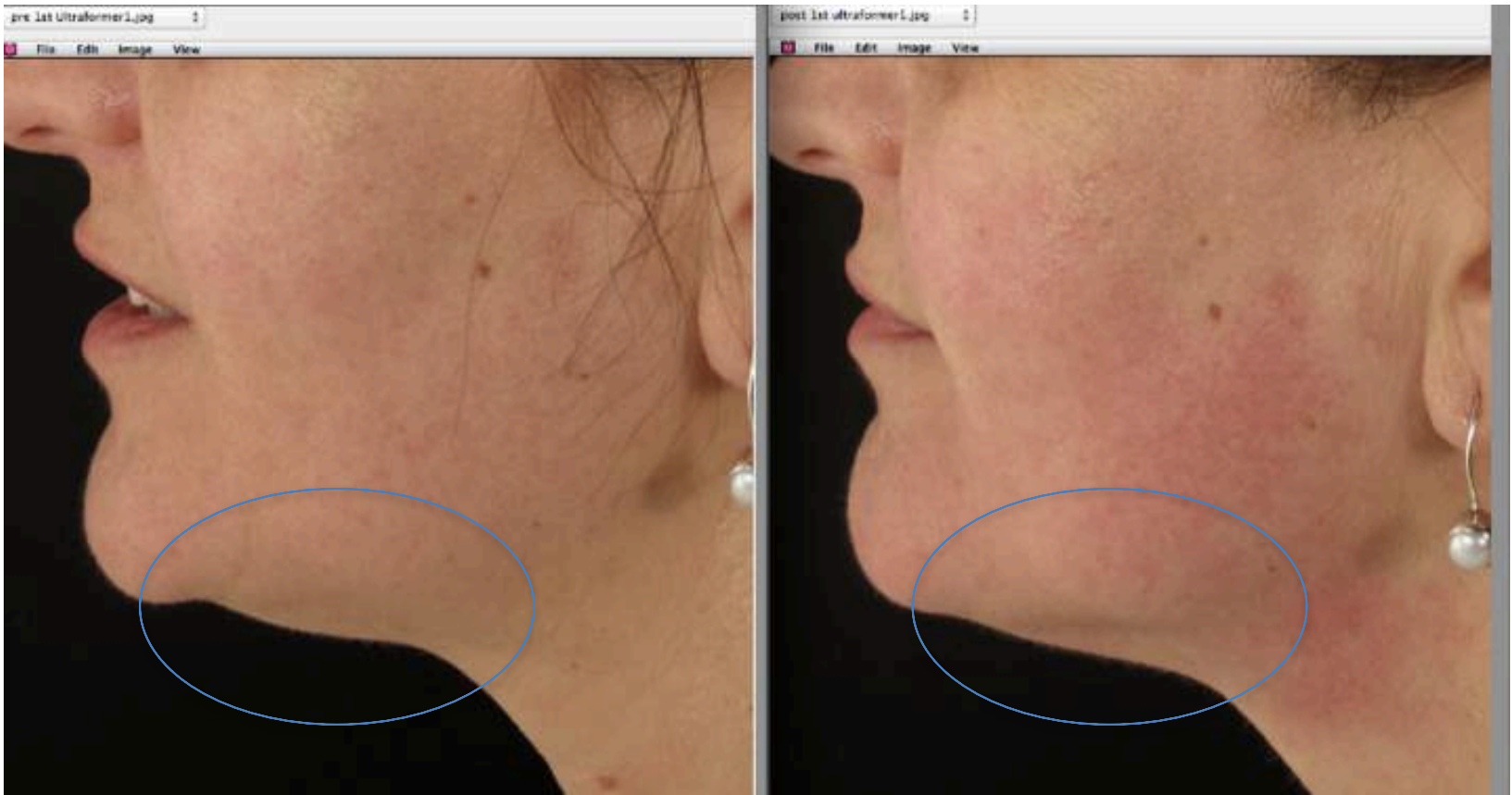


Baseline



Immediate post

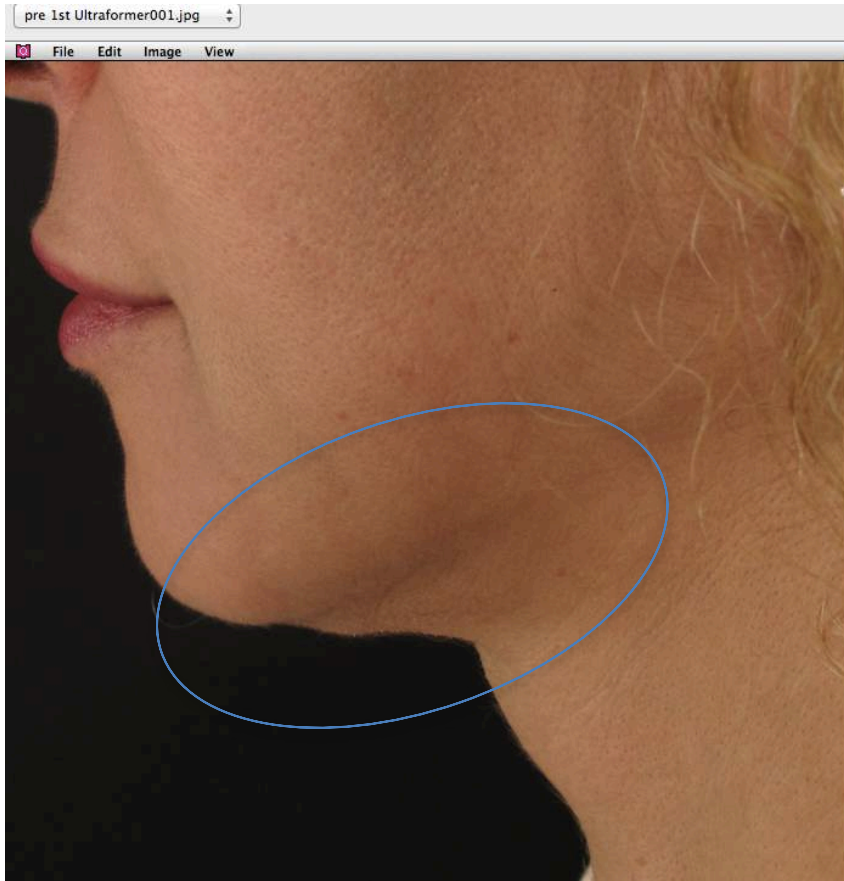
49yo F



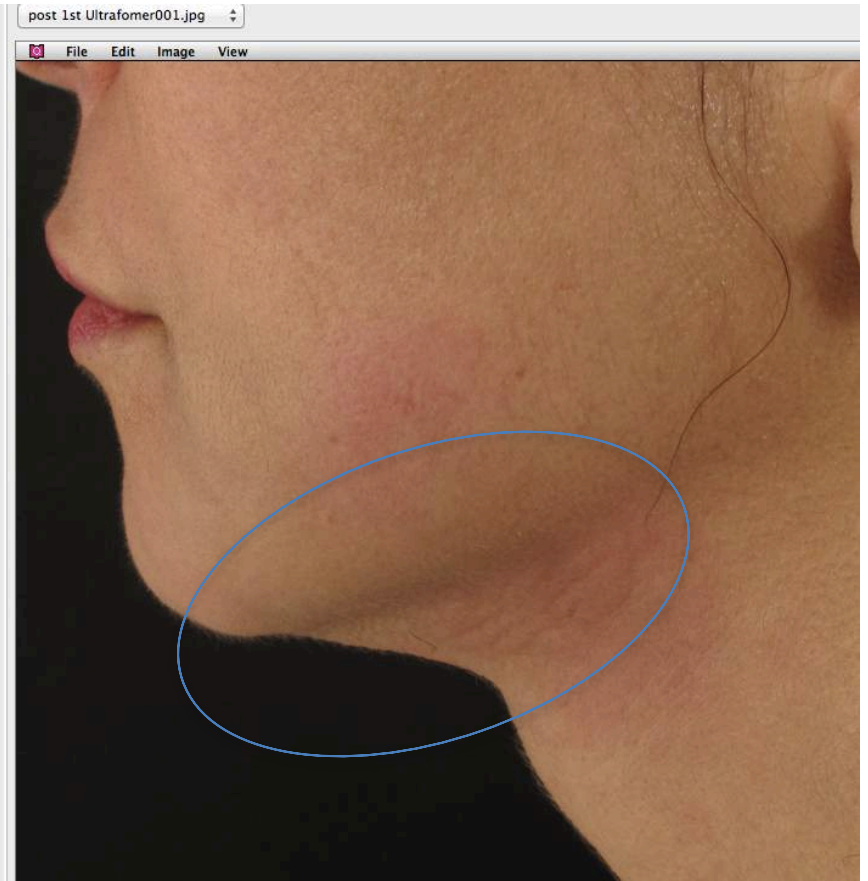
Baseline

Immediate post

56yo F



Baseline

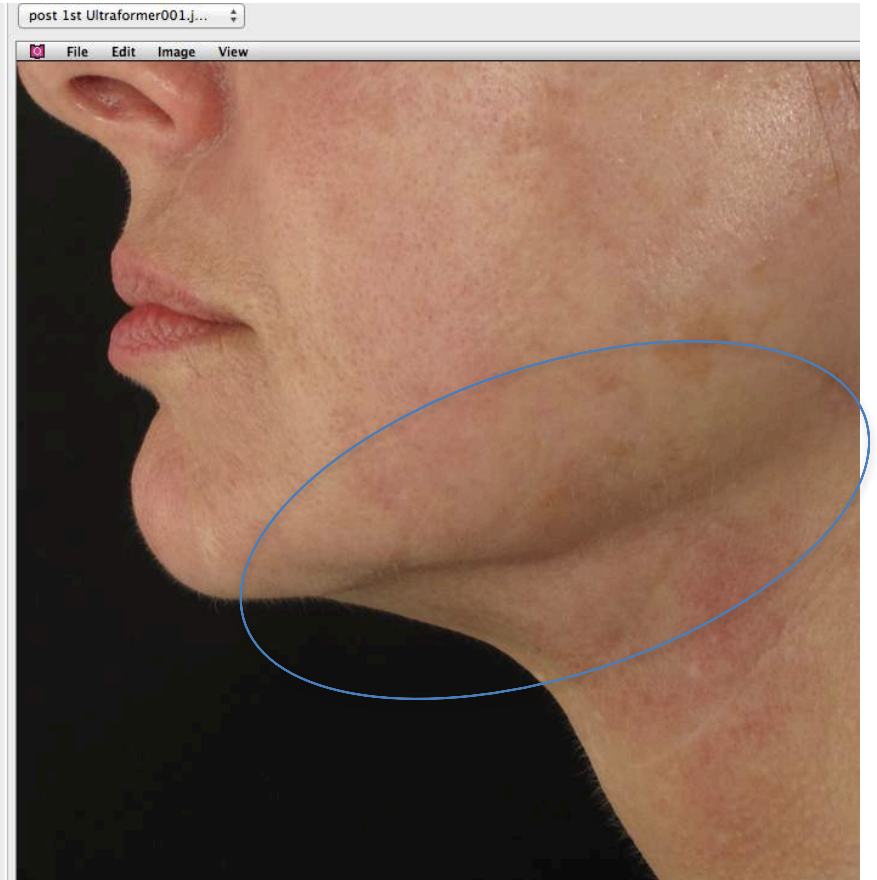


Immediate post

60yo F

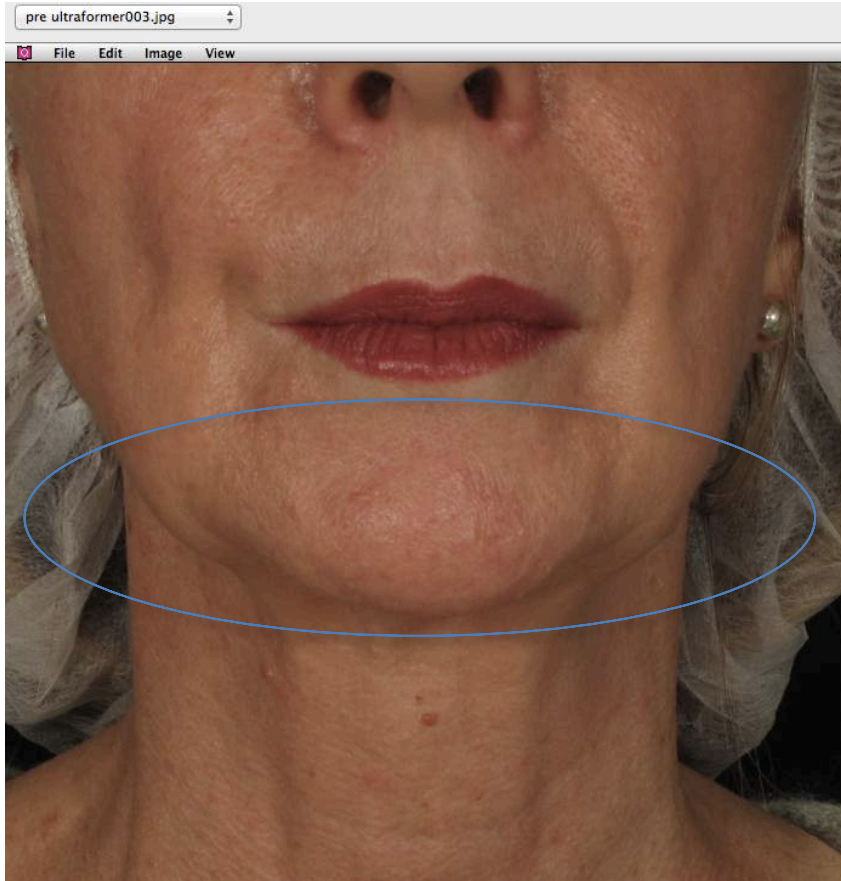


Baseline

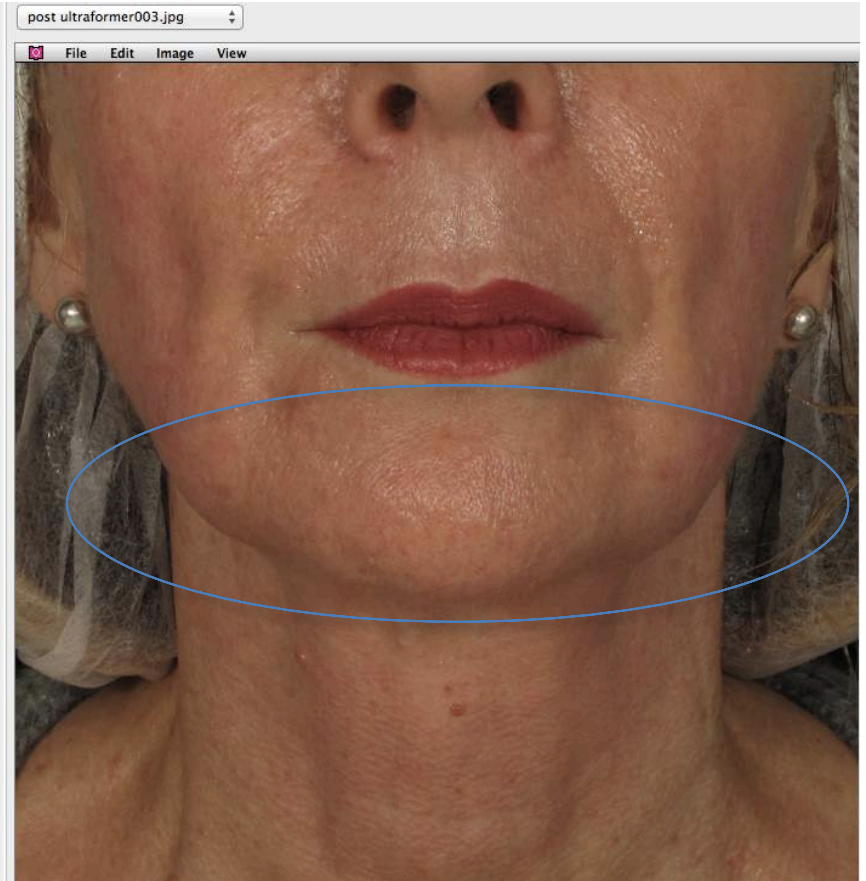


Immediate post

59yo F

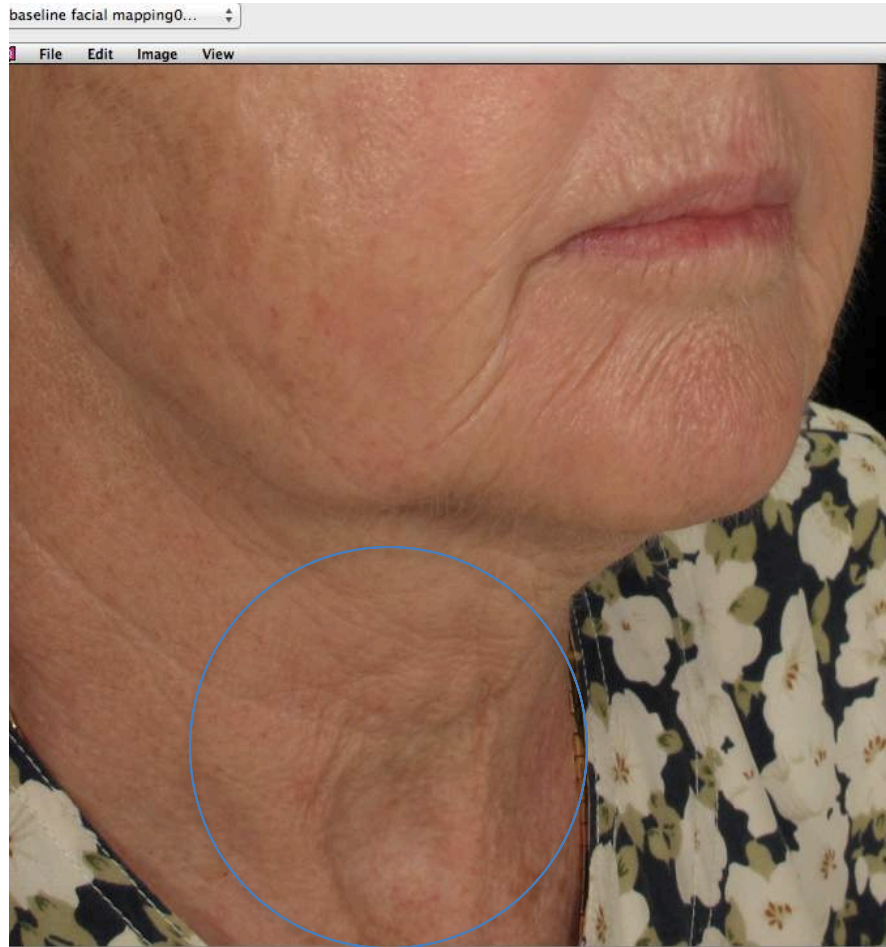


Baseline



Immediate post

67yo F



Baseline



Immediate post

49yo F

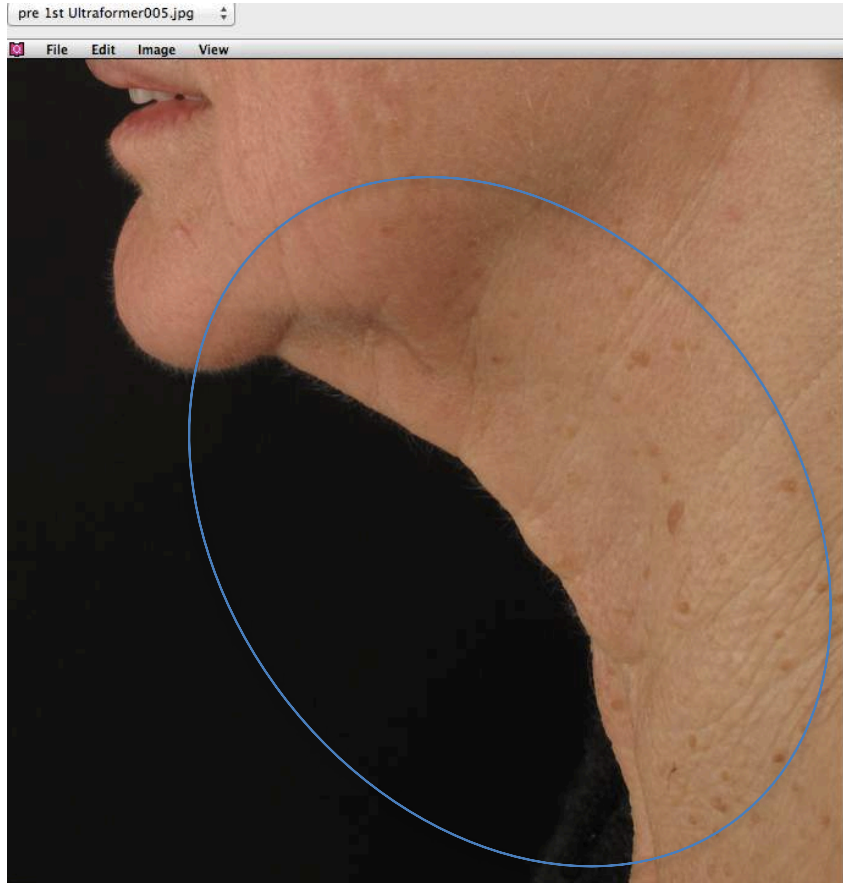


Baseline

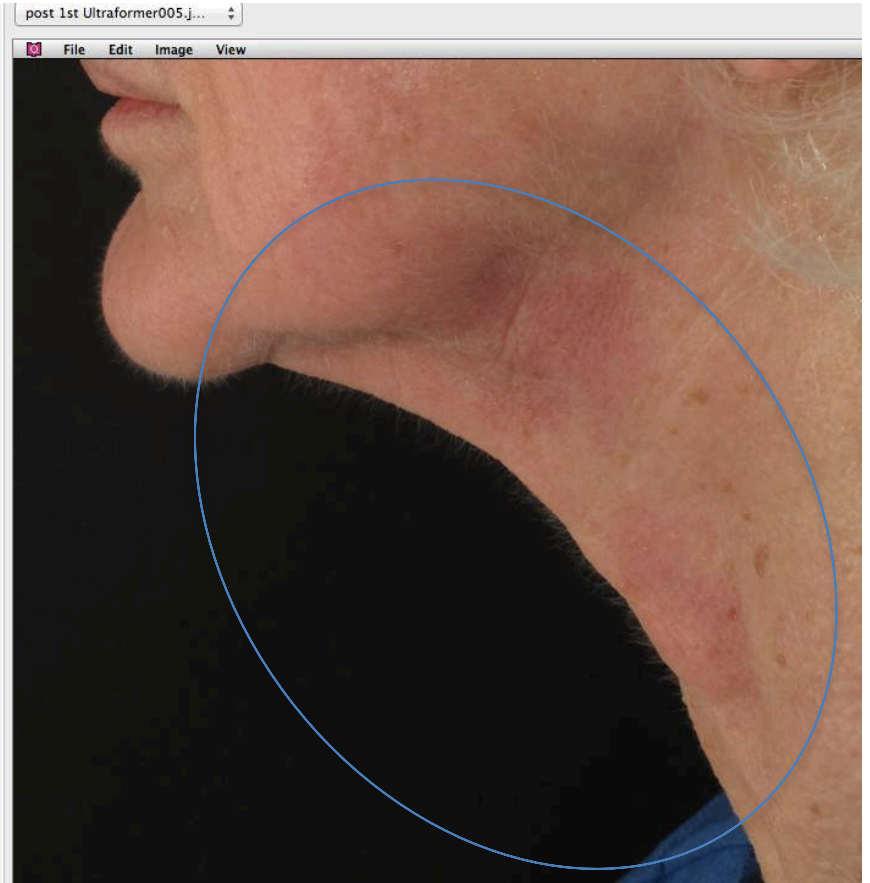


Immediate post

69yo F



Baseline



Immediate post

Results (2)

- Blinded dermatologists correctly identified final follow-up photos in 72.5% of cases*
- Initial improvement is correlated with subsequent improvement in 71.4% of cases

* D1: 15/20 (75%), D2 14/20 (70%)

Case 1 (52yo)

Laxity score: 1.5 (mild-mod)



baseline



4.5m

Rating scale: 0, 1, 2, 3

no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 2 (49yo)

Laxity score: 1.5 (mild-mod)



baseline



5m

Rating scale: 0, 1, 2, 3

no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 3 (67yo)

Laxity score: 0.5 (v mild)



baseline



1m

Rating scale: 0, 1, 2, 3

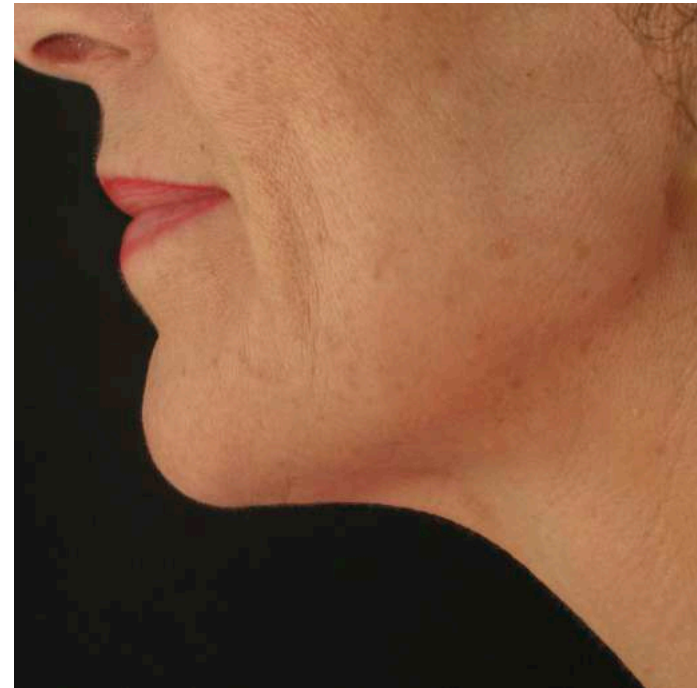
no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 4 (58yo)

Laxity score: 2.5 (mod-marked)



baseline



1m

Rating scale: 0, 1, 2, 3

no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 5 (57yo)

Laxity score: 0 (no change)



baseline



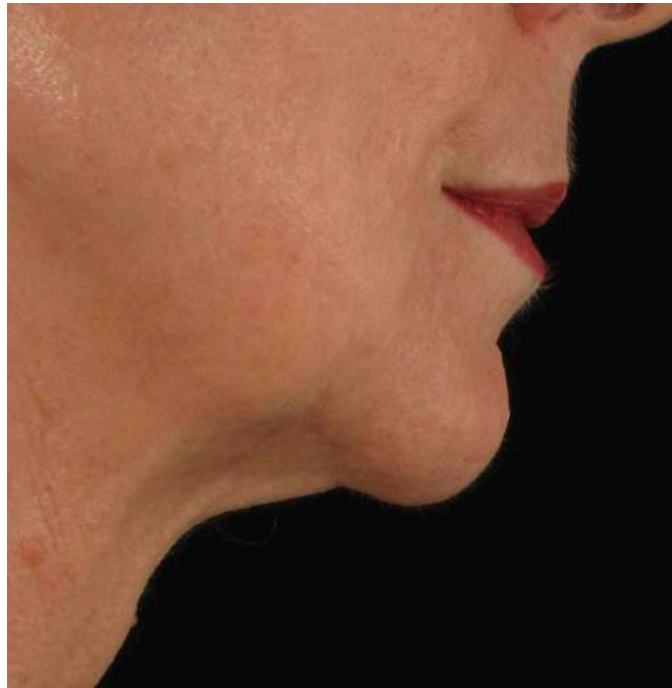
4m

Rating scale: 0, 1, 2, 3

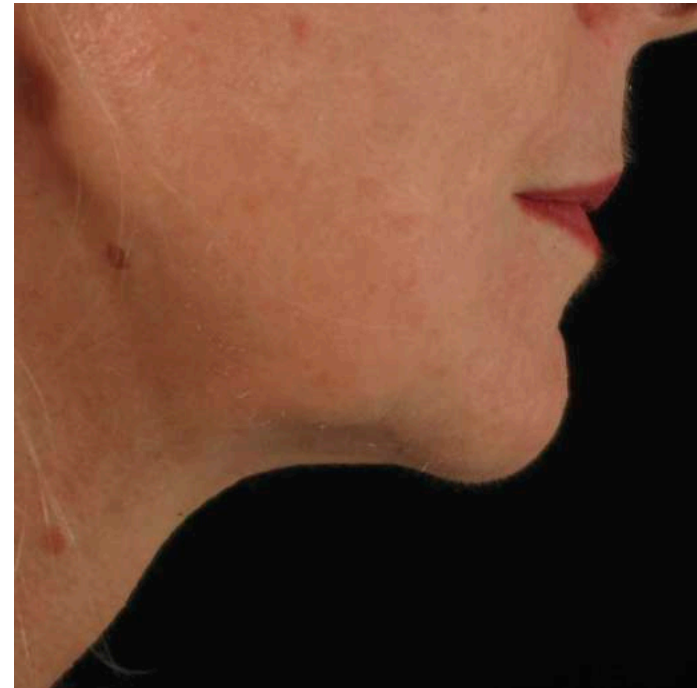
no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 6 (59yo)

Laxity score: 2.5 (mod-marked)



baseline



6m

Rating scale: 0, 1, 2, 3

no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 7 (49yo)

Laxity score: 0 (no change)



baseline

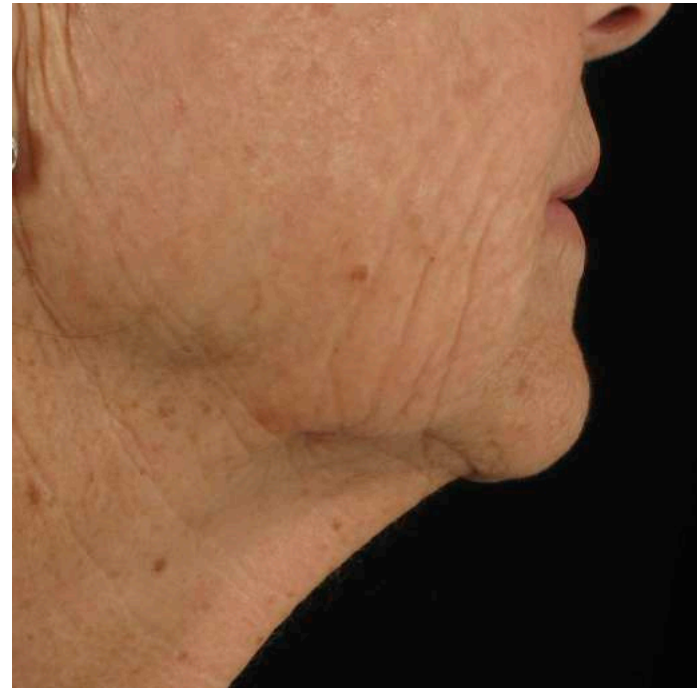
5m

Rating scale: 0, 1, 2, 3

no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 8 (61yo)

Laxity score: 1 (mild)



baseline

1m

Rating scale: 0, 1, 2, 3

no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 9 (69yo)

Laxity score: 0 (no change)



baseline



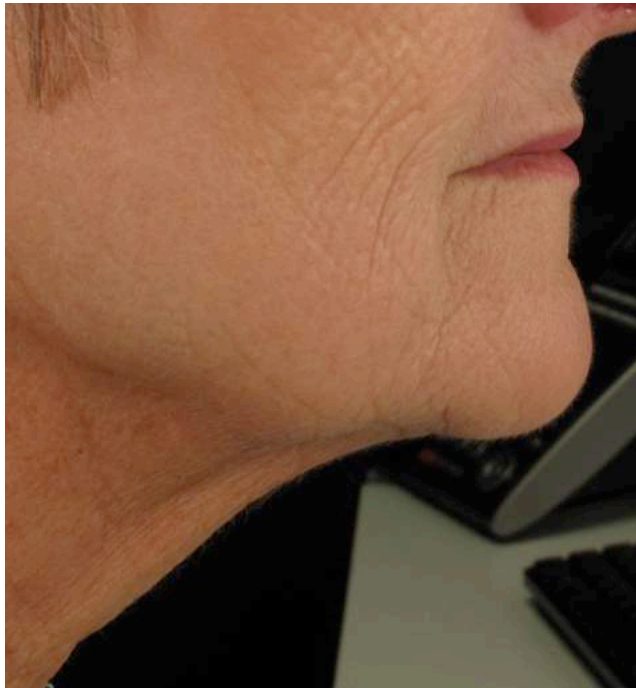
8w

Rating scale: 0, 1, 2, 3

no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 10 (63yo)

Laxity score: 0 (no change)



baseline



4m

Rating scale: 0, 1, 2, 3

no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 11 (69yo)

Laxity score: 1.5 (mild-mod)



baseline

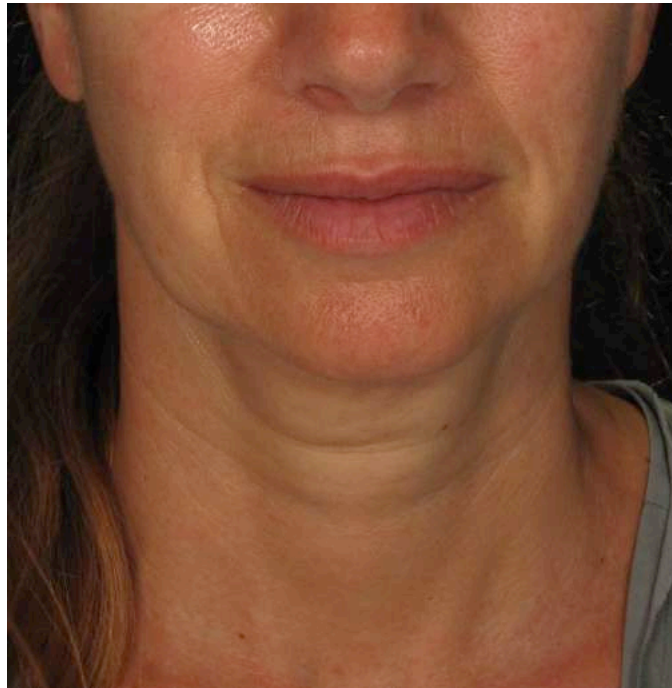
5m

Rating scale: 0, 1, 2, 3

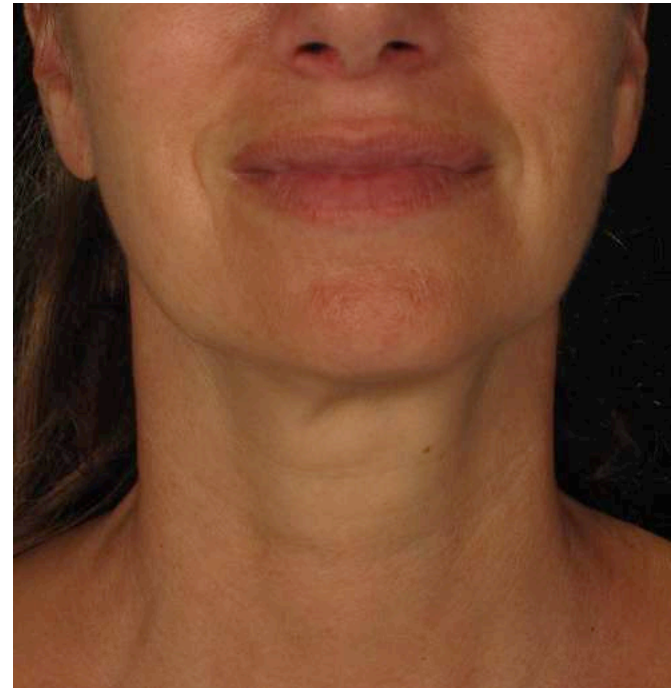
no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 12 (50yo)

Laxity score: 2.5 (mod-marked)



baseline



3m

Rating scale: 0, 1, 2, 3

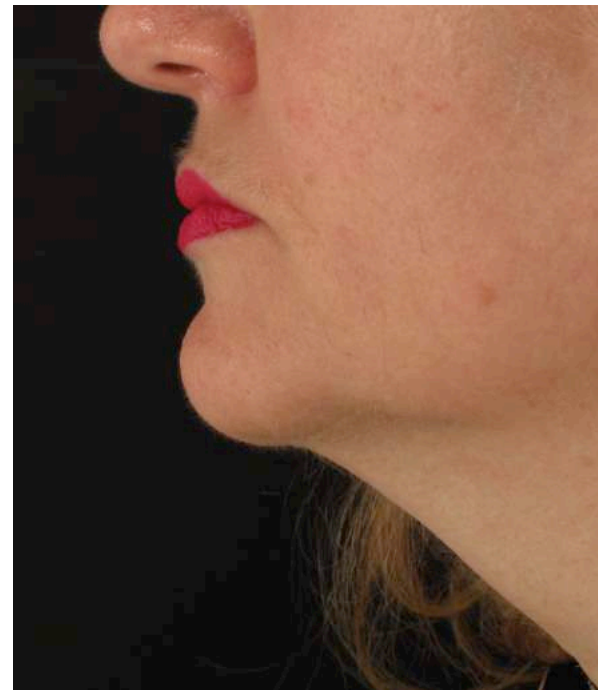
no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 13 (56yo)

Laxity score: 0 (no change)



baseline



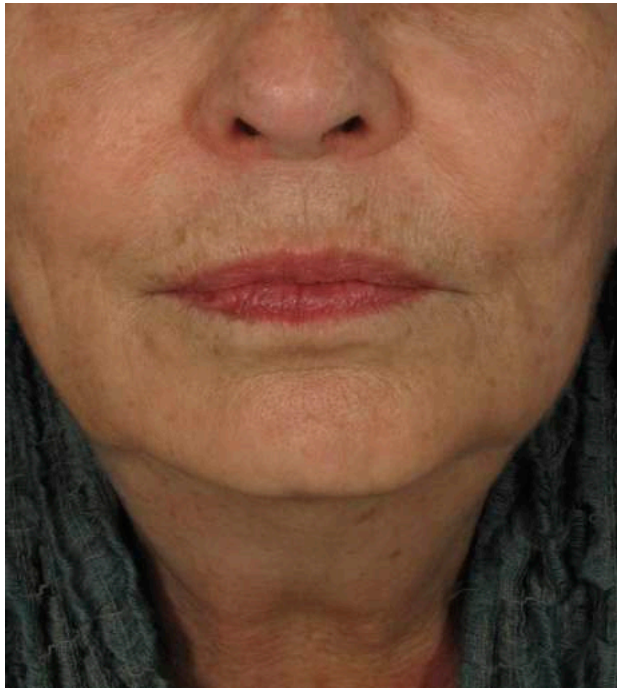
6m

Rating scale: 0, 1, 2, 3

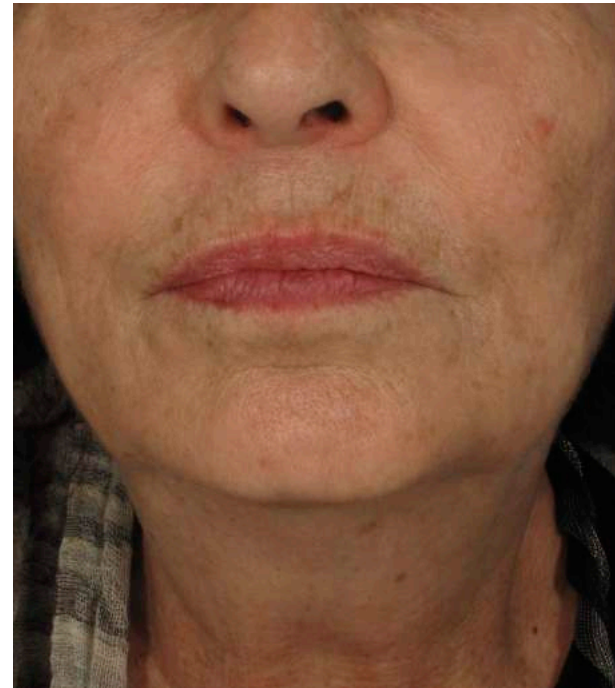
no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 14 (76yo)

Laxity score: 1.5 (mild-mod)



baseline



3m

Rating scale: 0, 1, 2, 3

no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 15 (53yo)

Laxity score: 0.5 (v mild)



baseline



3m

Rating scale: 0, 1, 2, 3

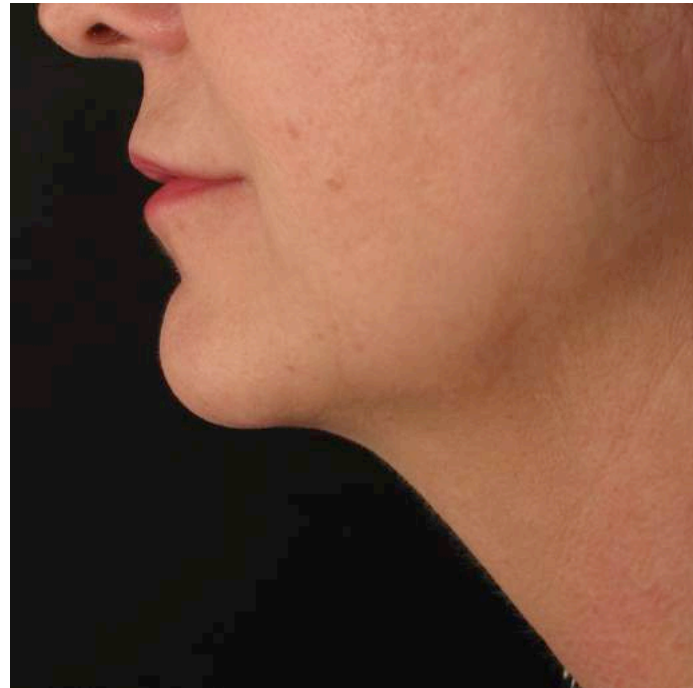
no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 16 (52yo)

Laxity score: 0.5 (v mild)



baseline



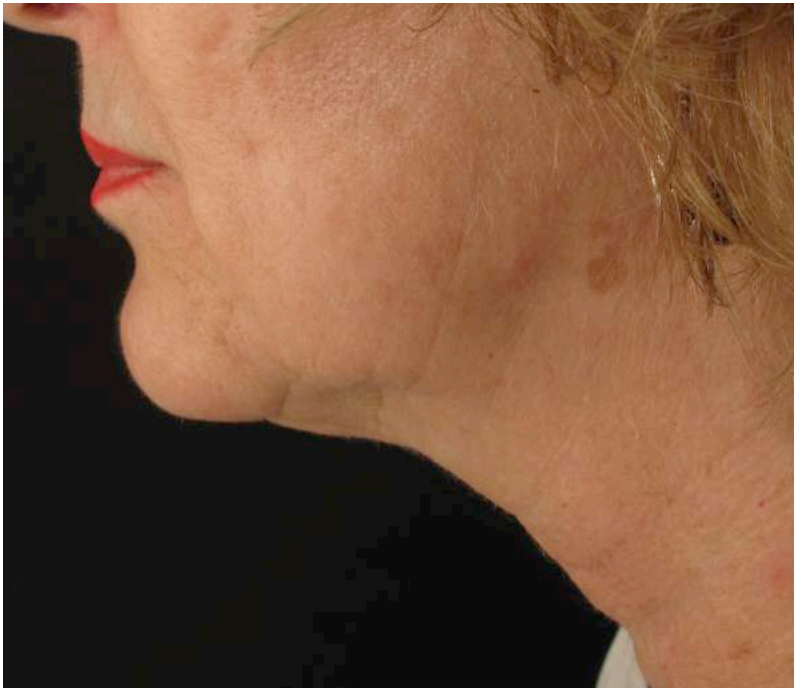
4m

Rating scale: 0, 1, 2, 3

no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 17 (68yo)

Laxity score: 1 (mild)



baseline



2m

Rating scale: 0, 1, 2, 3

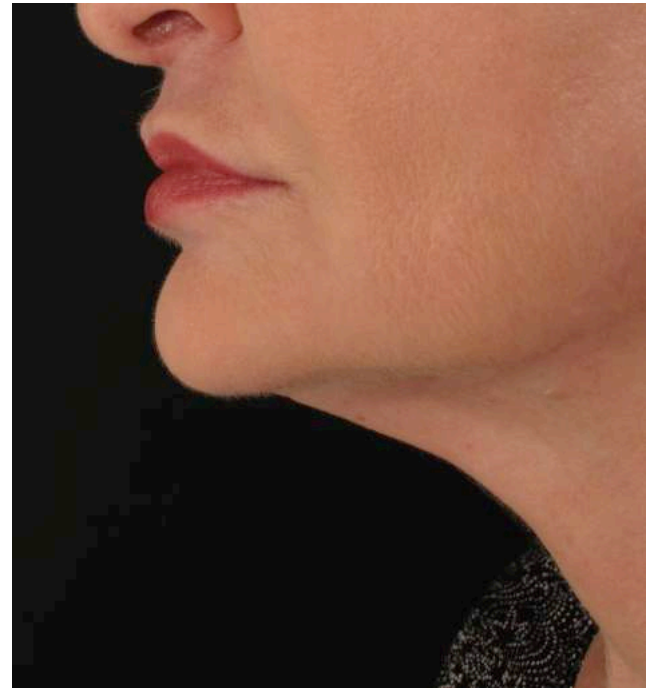
no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 18 (56yo)

Laxity score: 1.5 (mild-marked)



baseline



2.5m

Rating scale: 0, 1, 2, 3

no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 19 (54yo)

Laxity score: 1.5 (mild-mod)



baseline

2m

Rating scale: 0, 1, 2, 3

no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Case 20 (43yo)

Laxity score: 3 (marked)



baseline



3m

Rating scale: 0, 1, 2, 3

no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Results (3)

- Mean aggregate tightening score*: 1.63 = mild-moderate tightening
- Mean post-procedure follow: 12.9 weeks (range 4 – 26 weeks)

* Rating scale: 0, 1, 2, 3

no change (0), mild tightening (1), moderate tightening (2), marked tightening (3)

Results (4) – patient survey

	Strongly disagree (-2)	Disagree (-1)	Uncertain (0)	Agree (1)	Strongly agree (2)	Weighted mean (-2 to 2)	Median score
Q1. I am satisfied with the outcome of the procedure							
	0 respondent	1 respondent	4 respondents	7 respondents	8 respondents	1.1	Strongly agree
Q2. I would consider having the procedure again in the future							
	0 respondent	0 respondent	3 respondents	7 respondents	10 respondents	1.35	Strongly agree
Q3. I would recommend this procedure to a friend							
	0 respondent	0 respondent	5 respondents	6 respondents	9 respondents	1.2	Strongly agree
Q4. I find the comfort level of the procedure to be:							
	<i>'very uncomfortable'</i>	<i>'uncomfortable but bearable'</i>	<i>'slightly uncomfortable'</i>	<i>'comfortable'</i>	<i>'very comfortable'</i>	-0.15	Slightly uncomfortable but bearable
	1 respondent	7 respondents	7 respondents	4 respondents	1 respondent		
Q5. I find the duration of treatment:							
	<i>'much longer than expected'</i>	<i>'longer than expected'</i>	<i>'about right'</i>	<i>'shorter than expected'</i>	<i>'much shorter than expected'</i>	0.3	About right
	0 respondent	1 respondent	14 respondents	3 respondents	2 respondents		

Results (4) – patient survey

- 75% (n=15) reported a high degree of satisfaction
- 95% (n=19) found the procedure tolerable with topical anaesthesia, chilled air & optional gas*
- 95% rated the treatment time “about right” or “shorter / much shorter than expected”
- 85% would consider having the procedure again
- 75% happy to recommend procedure to others

* Nitrous oxide was freely offered and 30% accepted

Adverse effects

- Transient linear erythematous plaques (n=3)
 - Fully resolved in 1-2 days
- Thermal marginal mandibular neuropraxia resulting in subtle asymmetry of lower lip
 - Fully resolved in 10 days

Linear erythematous plaques



Thermal neuropraxia



- Marginal mandibular n
 - Dao
 - DIL
 - Mentalis
(lip depressors)

Study limitations

- Small sample size (n=20)
- Older age group (mean: 58.5 years)
- Females (all but one)
- Follow-up period till 6-months
- Potential investigator bias through industry-sponsored device (Cryomed Australia)

Summary

- New 'improved' MFU* is safe and effective
- High speed, low pain - 95% "comfortable to tolerable"
- Mild-moderate tightening in >70% of cases
- 75% patient satisfaction rate at follow-up
- Well embraced by patients

* Ultraformer-3

Thank you