

## Supplementary Document

### Supplementary Tables

**Supplementary Table S1:** Patient satisfaction survey score rubric

Criteria (patient satisfaction)	Score (1 – 10)
Scar texture & appearance (rate 1–10 based on how well the scar has healed appearance-wise)	10
Scar comfort & sensitivity (rate 1–10 based on absence of discomfort)	10
Confidence & emotional effect (rate 1–10 based on how confident you feel with the appearance of the scar with regards to your self-esteem)	10
Speed & progress of treatment (rate 1–10 based on how fast you feel the scar has healed)	10
<b>Average:</b>	<b>10</b>

**Supplementary Table S2:** HCP satisfaction survey score rubric

Criteria (HCP satisfaction)	Score (1 – 10)
Scar texture & appearance (rate 1–10 based on how well the scar has healed appearance-wise)	10
Scar comfort & sensitivity (rate 1–10 based on absence of discomfort in the patient)	10
Adverse effects (rate 1–10 based on how little side effects or adverse symptoms can be observed)	10
Speed & progress of treatment (rate 1–10 based on how fast the scar has healed)	9
<b>Average:</b>	<b>9.75</b>

HCP: healthcare professional.

**Supplementary Table S3:** Patient-reported satisfaction scores

Case	Scar texture & appearance	Scar comfort & sensitivity	Confidence & emotional effect	Speed & progress of treatment	Average
1	9	9	10	9	9.25
2	10	10	10	10	10.00
3	9	9	9	9	9.00
4	9	9	9	9	9.00
5	9	9	9	9	9.00
6	10	10	10	10	10.00
7	10	10	10	10	10.00
8	9	10	9	8	9.00
9	10	10	10	10	10.00
10	7	8	7	8	7.50
11	9	8.5	9	9	8.87
12	9	7	9	8	8.25

**Supplementary Table S4:** HCP-reported satisfaction scores

Case	Scar texture & appearance	Scar comfort & sensitivity	Adverse effects	Speed & progress of treatment	Average
1	9	9	9	9	9.00
2	10	10	10	10	10.00
3	9	9	9	9	9.00
4	9	9	9	9	9.00
5	9	9	9	9	9.00
6	10	10	10	9	9.75
7	10	10	10	10	10.00
8	9	10	10	8	9.25
9	10	10	10	10	10.00
10	7	8	7	8	7.50
11	8	8.5	9	8	8.37
12	9	7	9	8	8.25

HCP: healthcare professional.

### Supplementary Figures



**Figure S1:** Case 1: 35-year-old Vietnamese, G2P1. C-section scar appearance at 6 months post-surgery: the scar is barely visible and blends well with the surrounding skin. No textural irregularities or pigmentation issues were observed. No functional impairment was reported. C-section, cesarean section.



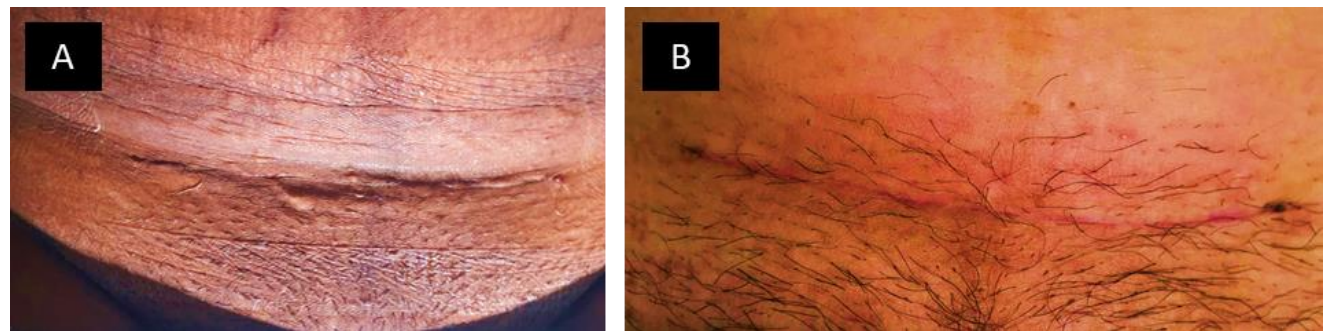
**Figure S2:** Case 2: 33-year-old Chinese, G1P0. C-section scar appearance at A) 1 day, B) 14 days, and C) 3 years post-surgery. At 3 years post-surgery, the scar turned almost invisible, and its length reduced by approximately 50%. C-section, cesarean section.



**Figure S3:** Case 3: 32-year-old Chinese, G1P0. A) C-section scar appearance at 1-week post-surgery. B) At 2 weeks post-surgery, a flattening of the scar along with reduced erythema and swelling were observed. C) At 6 weeks post-surgery, the scar healed well and was flat with minimal thickening at the lateral edges. C-section, cesarean section.



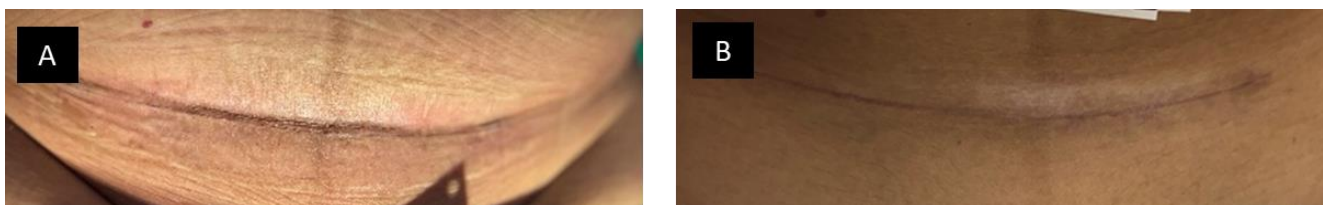
**Figure S4:** Case 4: 32-year-old Vietnamese, G1P0. C-section scar appearance at A) 14 days and B) 1 month post-surgery. C-section, cesarean section.



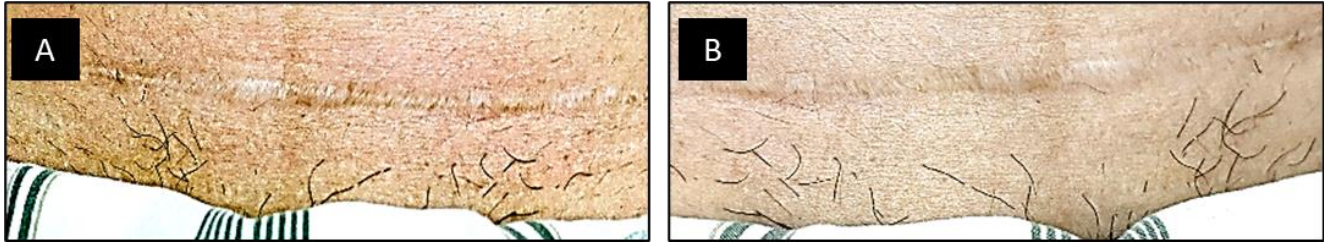
**Figure S5:** Case 5: 31-year-old Indian, G1P0. C-section scar appearance at A) 3 days and B) 4 weeks post-surgery. At 4 weeks post-surgery, the scar was flattened, wound was well-healed, and no hypopigmentation or wound infection was observed. C-section, cesarean section.



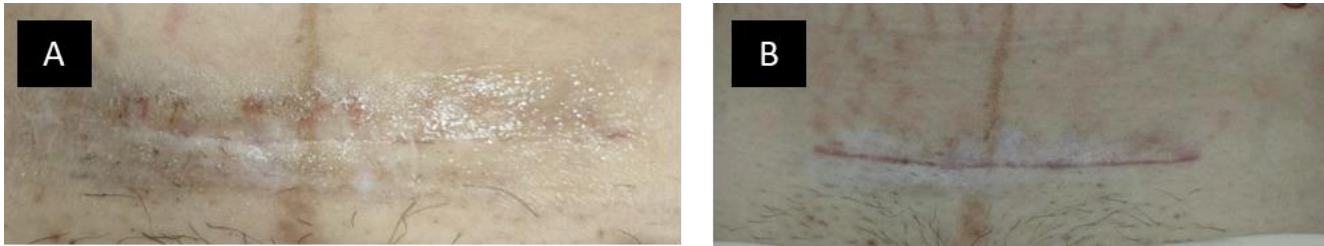
**Figure S6:** Case 6: 34-year-old Vietnamese, G2P2. C-section scar appearance at A) 5 days post-surgery. B) At 4 weeks post-surgery, the scar was soft, flat, and faded with no itching. C) At 6 months post-surgery, the color of the scar was indistinguishable from that of the surrounding skin. C-section, cesarean section.



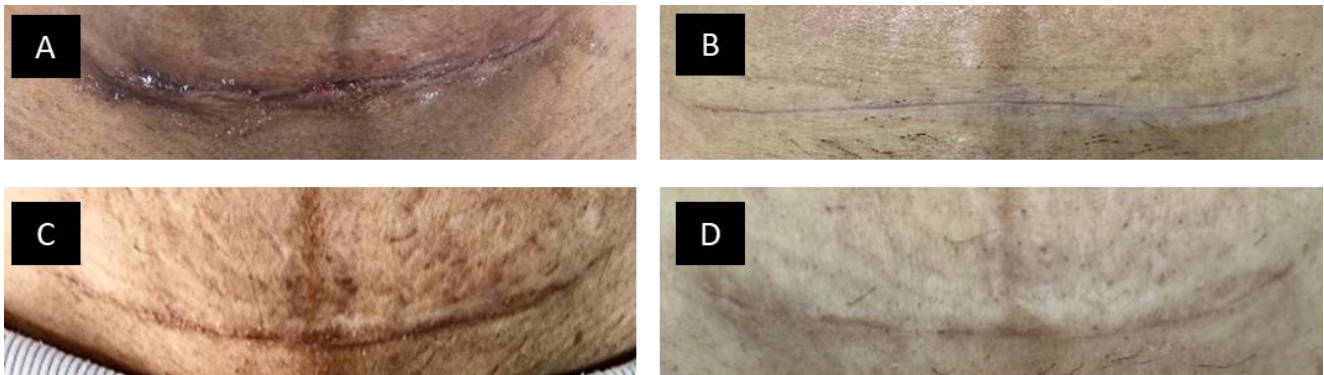
**Figure S7:** Case 7: 35-year-old Thai, G1P0. C-section scar appearance at A) 4 weeks and B) 8 weeks post-surgery.



**Figure S8:** Case 8: 37-year-old-Filipino, G2P1. A) Post-treatment image (2018, initial C-section, 12 months post-surgery). B) Post-treatment image (2025, 2<sup>nd</sup> C-section, 12 months post-surgery).



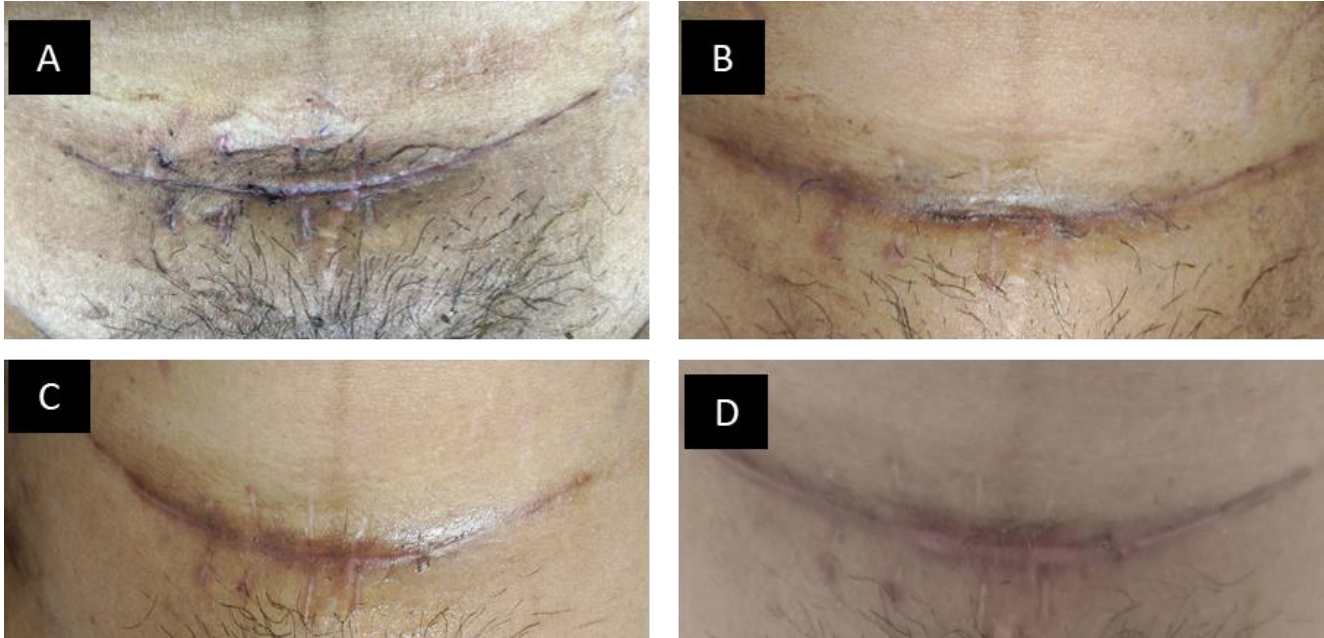
**Figure S9:** Case 9: 28-year-old Chinese, G1P0. C-section scar appearance at A) 1-month post-surgery. B) At 3 months post-surgery, redness was still observed on the flat scar without any swelling. C-section, cesarean section.



**Figure S10:** Case 10: 41-year-old Thai, G3P1011. C-section scar appearance at A) immediately, B) 10 days, C) 1 month, and D) 3 months post-surgery. At 3 months post-surgery, the scar remained flat, with no hypertrophy or keloid formation observed. Reduced scar pigmentation was observed. C-section, cesarean section.



**Figure S11:** Case 11: 36-year-old Chinese, G3P2. C-section scar appearance A) Pre-treatment; B) Post-treatment.



**Figure S12:** Case 12: 28-year-old Thai, G2P1. C-section scar appearance A) Immediately after treatment (17 days post-surgery), some scabbing and mild inflammation were visible, and the scar appeared thicker, raised, and inflamed; B) At 17 days post-treatment, the scar appeared considerably flatter and paler, showing early signs of maturation. C) At 32 days post-treatment, the scar was visibly flatter, with a significant reduction in redness compared to that observed in the initial stages. D) At 57 days post-treatment, the scar was soft, hypopigmented, and flat. C-section, cesarean section.