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The AccentXL radiofrequency (RF) device has been used successfully to treat rhytides and lax skin. Treatment protocols vary widely. Earlier studies used a timed number of passes over split treatment areas (eg, left cheek, right cheek, upper face, and lower face). In this study, we simplified and standardized the treatment protocol. We did not employ a timed number of passes, nor did we divide the face and neck into separate treatment areas; therefore, the face and neck were treated as one unit. Four patients were treated with the unipolar radiofrequency handpiece (110 kJ) and with the bipolar RF handpiece (50 kJ) on their faces and necks. Each patient received 4 treatments at 4- to 6-week intervals. Pre- and posttreatment clinical photographs (taken one month after the final treatment) and patient satisfaction ratings were used to assess treatment efficacy. Percentage results were measured based on subjective clinical improvement in rhytides and lax skin. One month after the final treatment, an independent physician-evaluator used clinical photographs to rate improvement. In patient 1 there was a 40% improvement; patient 2, a 45% improvement; patient 3, a 55% improvement; and patient 4, a 65% improvement. All patients rated their response as significantly improved. No adverse effects were reported. A standardized total energy–delivered protocol using hybrid RF safely and effectively treats rhytides and lax skin.

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applied to the handpiece, keeping it in direct contact with the skin. Care was taken to avoid the thyroid gland. The skin temperature was monitored using an infrared surface thermometer. Once the desired skin temperature of 40°C was achieved, the fluence was decreased to 95 W. Treatment continued until 110 kJ was delivered to the face and neck with the unipolar handpiece.

Treatment with the bipolar handpiece commenced immediately upon completion with the unipolar handpiece. The fluence of the bipolar handpiece was 60 W. A total of 50 kJ was delivered with the bipolar handpiece. The supraorbital rim of the orbit was treated with the bipolar handpiece at a 52-W fluence for 60 seconds. An on-off ironing technique was employed, moving in the medial to lateral direction. Four treatments were administered to each patient at 4- to 6-week intervals. Clinical photographs were taken one month posttreatment and compared with pretreatment photographs. The patients and an independent physician-evaluator noted significant improvements (Figures 1-4).

All patients reported significant clinical improvement. Furthermore, an independent physician-evaluator rated improvements as 40% to 65%.

Based on these case reports, we conclude that the AccentXL RF device safely and effectively treats rhytides and lax skin. A standardized total energy–delivered protocol causes reproducible treatment results. In addition, it allows the treatment session to flow smoothly. We have used this treatment protocol in additional patients, and significant clinical improvement continues to be achieved. Further studies are needed with more patients, more treatment sessions, and longer follow-ups to assess optimal treatment parameters.

REFERENCES