

four cryoprobe insertions.

**Data Source:** Pilot study of 36 adults (aged 35-70 years) with dynamic forehead wrinkles.

**Disclosures:** Both Dr. Palmer and Dr. Narurkar are paid consultants for MyoScience, which funded the study.

al property of selectively affecting the axon, yet preserves the endoneurial sheath. [It] has no impact on collagen-based structures," Dr. Narurkar explained at the meeting.

According to Dr. Palmer, both the absence of ptosis risk

physicians for toxin, but as a complement. Physicians now have something to give patients who don't want a toxin, or for use in combination in areas where you can't use a toxin. Botox is fabulous. It doesn't need to be replaced," said Dr. Palmer, director of the Beverly Hills (Calif.) International Center for Aesthetic Surgery.

toxin therapy doesn't offer, but it's in a very early stage. It will be refined further before it hits the market," Dr. Palmer said.

The device manufacturer, MyoScience, plans to seek a CE marking for the cryoprobe later this year before approaching the U.S. Food and Drug Administration, he said. ■

## Nd:YAG Laser Plus 3-D Optical Fiber Targets Cellulite

BY MIRIAM E. TUCKER

FROM THE ANNUAL MEETING OF THE AMERICAN SOCIETY FOR LASER MEDICINE AND SURGERY

GRAPEVINE, TEX. – An investigational sidelight three-dimensional optical fiber and 1,440-nm Nd:YAG laser produced significant improvement of cellulite with one treatment at 6 months in a study of 15 healthy women.

### VITALS

**Major Finding:** Digital photographic evaluation by two independent observers at 6 months found that 68% had excellent improvement in cellulite, and Vectra 3-D imaging demonstrated significant improvement in 65%. By physician evaluation, 76% had good or excellent results (69% by patient evaluation).

**Data Source:** A 6-month study of 15 women aged 20-55 years with cellulite on their lateral or posterior thighs or buttocks.

**Disclosures:** The study was funded by Cynosure, of which Dr. Katz is a stockholder.

Cynosure Inc.'s Cellulaze cellulite laser workstation's 1,440 wavelength is well absorbed by adipose tissue and water. The side-firing SideLight 3-D optical fiber thermally subsides subcutaneous septa, deplanes fat cells, and heats dermal tissue to promote skin thickening and tightening, said Dr. Bruce E. Katz of the department of dermatology at Mount Sinai School of Medicine, New York.

The 15 women (aged 20-55 years) all had cellulite on

their lateral or posterior thighs or buttocks, body mass indexes less than 30 kg/m<sup>2</sup>, and skin types I-V.

Following local anesthesia, two 1.5-mm incisions were made and the probe was inserted. Subcutaneous temperature was kept at lower than 47° C and surface temperature at lower than 40° C. The Nd:YAG laser delivered 1,000 joules per 5- x 5-cm square.

Digital photographic evaluation by two independent observers at 6 months found that 68% of the women had excellent improvement in cellulite; Vectra 3-D imaging demonstrated significant improvement in 65% of them. By physician evaluation, 76% had good or excellent results (69% by patient evaluation). Vectra analysis of skin contour demonstrated an average 47% reduction in depth and 32% reduction in height of skin bulges, Dr. Katz reported at the meeting.

Histologically, there was an increase in coarser collagen and elastic fibers in the dermis, noted Dr. Katz, who is also director of the cosmetic surgery and laser clinic at Mount Sinai Medical Center.

Three patients experienced mild ecchymoses and four had edema lasting less than a week. There were no other adverse events.

"This may be a game changer for the treatment of cellulite," Dr. Katz said.

Cynosure received CE marking certification for the Cellulaze device in the European Union in February of this year.

The U.S. Food and Drug Administration approved an Investigational Device Exemption (IDE) for the device, and a clinical IDE study is currently underway.

Regulatory action on a 510(k) submission, filed in late 2010, is currently expected in the first half of this year, according to a statement from Cynosure. ■



Cellulite is shown before and after (right) treatment with a novel sidelight 3-D optical fiber plus 1,440-nm Nd:YAG laser.