Efficacy and Safety of Fractional Carbon Dioxide Laser for Treatment of Facial Freckles.

Status: Completed
Study Phase: N/A
Start Date: March 2012 | Completion Date: October 2012
Condition(s): Freckles

Full Title of Study
Efficacy and Safety of Fractional Carbon Dioxide Laser for Treatment of Facial Freckles

Overview
Freckles are clusters of melanin in the superficial epidermis. They affect mostly face and sun exposed areas, and appear as flat brown or red macules that fade in winter, usually in a fair complexion patient, but may be present in other skin types. The gold standard in the industry for non-surgical facial rejuvenation, removal of wrinkles, pigmentation, and general sun damage has been the carbon dioxide (CO2) laser since the mid 1990s. The traditional CO2 laser was very effective, however it fell out of favor because it required general anesthesia. It also had a prolonged recovery time. Over the last several years, advances in technology known as fractional resurfacing has made the CO2 laser popular again: Fractional CO2 laser treatment is one of the newest laser rejuvenation technology. It proved successful in treatment of melasma, one of the pigmented dermatoses. To the best of our knowledge, based on a thorough search of literature, no clinical studies assessing fractional CO2 laser in treatment of freckles could be retrieved.

Study Details

Study Type: Interventional
Study Design: Endpoint Classification: Safety/Efficacy Study, Intervention Model:
Investigator Details

**Lead Sponsor:** Cairo University

- **Study Chair:** Bakr M Elzawahry, MD  
  Cairo University
- **Principal Investigator:** Vanessa G Hafez, MD  
  Cairo University
- **Principal Investigator:** Aya Fahim, MBBCh  
  Cairo University

Trial Location Details

- **Facility:** Dermatology department - faculty of medicine - Cairo University  
  Cairo, Egypt

Interventions

- **Procedure:** Fractional carbon dioxide laser  
  SmartXide fractional carbon dioxide laser (DEKA, Florence, Italy). Parameters adjusted for: Power 20 watts, spacing 200 µsec, dwell time 300 µm, stacks 1.

Information Source

**ID Number:** Fractional CO2 in freckles  
**NCT Identifier:** NCT01545869  
**Health Authority:** Egypt: Institutional Review Board  
**Full Source of Clinical Trial Data:** http://clinicaltrials.gov/show/NCT01545869  
ClinicalTrials.gov processed this data on June 17, 2015  
Clinical trials entries are delivered from the US National Institutes of Health and are not reviewed separately by this site. Please see the full source link above for retrieving further details from the government database.