

Modified Martins Insulated Tissue Forceps

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Technology description

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Surgeons and researchers at MUSC have created a new design for forceps that features insulation, horizontal teeth at the distal end, and wide ridges over the finger grips. The design mimics successful insulated forceps like the Lovelace Hemostatic Forceps but utilizes wider tips for greater tissue excision during electrocautery procedures. The design is also similar to existing Martins Forceps but features insulation and wide ridges in the finger grip region. While close in design to these available devices, this design progression is similar to the jump from DeBakey Forceps to Lovelace Hemostatic Forceps.

Overview

This design would be useful in procedures where tissue traction, such as for the purpose of excision, and cauterization, such as use of a Bovie, are required. Current forceps used for medium-sized tissue traction are Martins Forceps that are made of a conductive material (stainless steel) and do not have any insulating coating. If a Bovie tip comes in contact with the uninsulated forceps, an unintentional burn of surrounding tissue may occur. This combination of surgical tools is common in OB/GYN and breast operations.

Application area

tissue excision, cauterization

Advantages

Patient Safety: Insulation reduces risk of unintentional burning of patient tissue.

Clinician Comfort: Wide ridges create a comfortable finger gripping region.

Wide Tips: Large tips enable the clinician to grip larger sections of tissue than current insulated forceps.

Key Words: tissue excision, tissue traction, cauterization, insulated forceps, forceps design, Martins Forceps

Institution

[Medical University of South Carolina](#)

Inventors

[Andrea Abbott](#)

Assistant Professor

Surgery

[Matthew Roberts](#)

Student

Medicine

联系我们



叶先生

电话 : 021-65679356

手机 : 13414935137

邮箱 : yeyingsheng@zf-ym.com