

Preparing Standardized Pouches In Experimental Studies Using The Button Technique

Deneysel Çalışmalarda Düğme ile Standart Boyutta Cep Hazırlama Tekniği

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Dear editor;

In experimental studies undertaken especially in the field of plastic surgery, the preparation of standard subcutaneous or intramuscular pouches in animal models are quite frequent. When performing an experimental study, standardization is one of the key factors that make a scientific study valuable and worthy (1-2). In our clinic, we use the button technique when preparing standardized subcutaneous pouches in animal studies. Our technique is presented.

In an animal study in which a standard subcutaneous pouch must be prepared in the dorsal aspect of the rat, first a standard skin incision is performed. Following the incision, the desired plane of dissection is found with the help of dissection scissors and minimal dissection is carried out in this plane (Figure 1). Finally, depending on the size and shape of the desired pouch, a pre-sterilized button is inserted into the minimally dissected area and advanced in a blunt fashion until the pouch is ready. The procedure results in a bloodless field along with a standard-sized pouch (Figure 2).

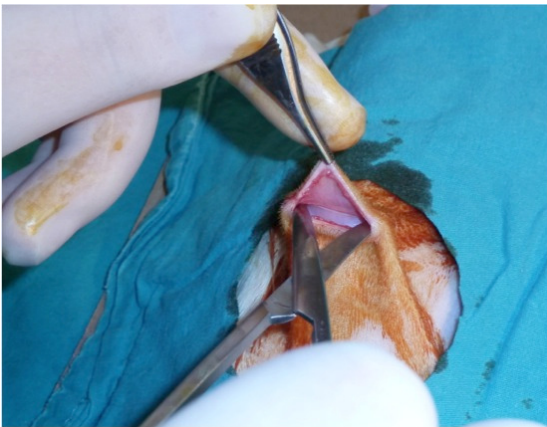


Figure 1. The desired plane of dissection is found with the help of dissection scissors and minimal dissection is carried out in this plane

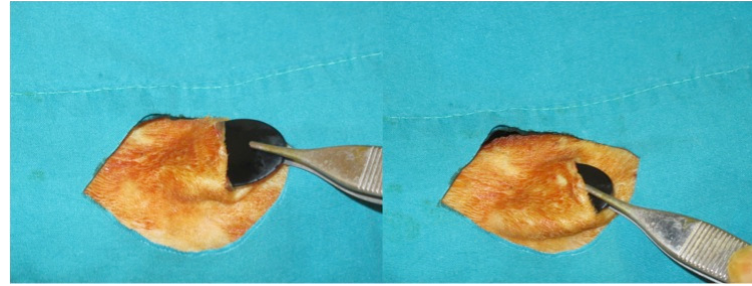


Figure 2. A pre-sterilized button is inserted into the minimally dissected area and advanced in a blunt fashion until the pouch is ready

Standardization remains to be the backbone of experimental research along with all scientific studies. It puts forth the scientific value of the study and allows for precise repetition of the steps required to fulfill the path of testing the hypothesis. The button technique is a simple, cheap and practical way of creating standardized pouches in desired planes. It results in a bloodless dissection along with standardized pouches that can be modified in shape and size according to each study's needs.

Conflict of Interest

No conflict of interest was declared by the authors.

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