# MATRIDERM™ VERSUS INTEGRA™, WHICH ONE PROVIDES BETTER SCAR QUALITY?

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## Introduction

The use of dermal substitutes have been proven as a valid alternative for the treatment of burns and loss of substance. In this experimental study, we compare two products that we often use for the same indication: Integra™ single layer and Matriderm™ 1mm (in a one-step procedure), evaluating the results obtained.

## Materials and Method

In the Department of Plastic and Reconstructive and burns of S. Eugenio hospital in Rome department a randomized study was carried in 25 patients suffering of burns and loss of substance from 2009 to 2011. We evaluated the quality of the scar and the elasticity of the cutis following a reconstruction with Integra™ and Matriderm™ using a cutometer and the Vancouver Burn Skin Score (VBSS). The treated areas were divided into two homogeneous zones A and B, according to the depth of the lesion, treated respectively with Matriderm™ or Integra™ and the areas A and B were compared. We also compare homogeneous symmetrical parts of the body such as hands. The dermal matrices were positioned under the autologous skin graft.

## Results

After 9 months, the evaluation of skin elasticity and quality of the areas with Vancouver Burn Skin Score highlighted an overlap of results while there were differences in pliability, distension and elasticity in the evaluation with cutometer.

## Conclusion

Dermal substitutes have nowadays represent an optimal option for the treatment of burns and loss of substance especially when there is a lack of donor site areas availability or there are controindications for mayor treatments. The purpose of the work was to compare similar products adding data in a so big field like the one of dermal substitutes.