

WELL-BEING OF THE VULVA AND VAGINA FROM FERTILE  
AGE TO MENOPAUSE

# Regenerative medicine in gynecology



SEFFIGYN®

# A new approach

A new approach to regenerative medicine in gynecology. (2021) M. Mantovani, A. Gennai, P. R. Russo. *Gynecology & Obstetrics*  
<https://doi.org/10.1002/ijgo.13906>



Autologous fat grafting using a new medical device for the harvesting and preparation of adipose tissue rich in progenitor cells and stromal vascular fraction (SVF) cells is a promising treatment of genitourinary menopausal syndrome (GSM).



SEFFIGYN®

# Objective of the study



To evaluate the efficacy of microfragmented adipose tissue injection in the treatment of women with genitourinary syndrome of menopause (GSM).

# The study



This study included 12 women who received a multiple injection session using the SEFFIGYN™ medical device. Symptoms such as burning, itching, dryness, pain during penetration, pain during deep intercourse and pain during urination were evaluated before the patient's treatment, after 15 days and after 5 months using the numerical evaluation.

# Results



An improvement in vulvar trophism was clinically evident as early as 2 weeks after treatment. All symptoms were significantly attenuated from the initial visit, as demonstrated by statistically significant reductions in NRS scores ( $P = 0.003$  for pruritus,  $P = 0.008$  for pain when urinating, and  $P < 0.001$  for other symptoms, sign test). Additionally, all symptoms continued to improve over time. All patients reported a positive change in their quality of life and a resumption of sexual life.



## A new approach to regenerative medicine in gynecology

Marina Mantovani<sup>1</sup> | Alessandro Gennai<sup>2</sup>  | Paola Rosalba Russo<sup>3</sup>

<sup>1</sup>CHECK-UP Center, Modena, Italy

<sup>2</sup>Plastic Reconstructive and Aesthetic Surgeon Medical Director STUDIO GENNAI, Bologna, Italy

<sup>3</sup>Estemed Aesthetic Clinic, Modena, Italy

**Correspondence**

Alessandro Gennai, STUDIO Gennai, Via delle Lame 98, 40122, Bologna, Italy.  
Email: agennai@mac.com

**Abstract**

**Objective:** To evaluate the efficacy of the injection of microfragmented adipose tissue in the treatment of women with genitourinary syndrome of menopause (GSM).

**Methods:** This observational cohort study included 12 women who received one session of multiple injections of microfragmented adipose tissue using the SEFFIGYN<sup>®</sup> medical device. Symptoms such as burning, itching, dryness, pain on penetration, pain during deep intercourse, and pain on urination were assessed before the patient's treatment (T0), after 15 days (T15), and after 5 months (5Mo) using the Numerical Rating Scale (NRS).

**Results:** An improvement of vulvar trophism was clinically evident already 2 weeks after treatment; all symptoms were notably attenuated compared with the initial visit, as demonstrated by statistically significant reductions of the NRS scores ( $P = 0.003$  for itching,  $P = 0.008$  for pain on urination, and  $P < 0.001$  for the other symptoms, Sign test). Moreover, all symptoms continued to improve over time. All patients reported a positive change in their quality of life and a resumption of sexual life.

**Conclusion:** The use of microfragmented adipose tissue in GSM is promising. Nevertheless, more studies will be fundamental to exclude a potential placebo effect and better understand the underlying molecular mechanism of action.

**KEYWORDS**

adipose-derived stem cells, episiotomy scar, genitourinary syndrome, postmenopause, Rejuvenating medicine, stromal vascular fraction, vaginal laxity, vulvovaginal atrophy

[my.seffigyn.com](https://my.seffigyn.com)



SEFFIGYN<sup>®</sup>