Case Report Open Access

Introduction

In Italy, as elsewhere in the world, it is estimated that about 25% of the female population su ers from urinary incontinence and that, approximately, one third of this have a regular leakage of urine[1].

From the clinical point of view, Urinary Incontinence can be classi ed into:

- Urge incontinence
- Stress incontinence
- Mixed incontinence

All authors agree that urinary incontinence is still an important welfare problem. Overactive bladder is a syndrome characterized by urinary frequency, nocturia, urgency with or without "urge incontinence". e basis of this phenomenon is an instability of the detrusor. e de nition of unstable a detrusor is the following: "which, during bladder lling, is contracted spontaneously or a er provocative maneuvers".

is is the consequence of a defective cerebral control on voiding centers of the diencephalon and the sacral cord. Stress urinary incontinence is de ned as the involuntary loss of urine resulting from sudden increases in abdominal pressure.

- e main risk factors are pregnancy, childbirth, menopause and general status of the lower urinary tract anatomy.
 - e etiologically most important factors are:
- Denervation of the pelvic $\,$ oor, presumably related to the time of delivery; the damage seems to be related to the duration of the expulsive period (> 40 minutes) and the birth weight (> 3800g)
- Quality of collagen: the patients with stress incontinence or genital prolapse seem to have a more fragile collagen than the asymptomatic ones.

It follows that the liability of stress incontinence by a lack of urethral support appears to be attributable to the collagen (particularly to the post-menopausal atrophy), while the urethra extrinsic and intrinsic muscle de cit is due to denervation of the pelvic oor [2].

at is why it is important to emphasize that urinary incontinence is present, although less frequently, even in nulliparas.

Conditions o en associated with stress incontinence are:

- cystocele, which appears when the bladder descends respect to its normal position
- rectocele, or herniation of the rectum to the vagina (o en it is the result of obstetric trauma)[3].

As reported in literature, anatomical and functional consequences are linked with obstetric factors. Pregnancy may cause urinary incontinence and genital prolapse; besides, primiparous incontinent urinary incontinence and pelvic defects. Caesarean section may protect from perineal risk of delivery but not from the damage due to the pregnancy itself. Forceps is found out the most dangerous instrument for pelvic oor, followed by vacuum and vaginal delivery with tears [5].

Case Report

Here is reported an emblematic clinical case of Stress Incontinence due to the previous deliveries.

A 59-year-old woman presented with the chief complaint of urinary incontinence. e patient reported an initial but tolerable loss of urine 2 years before as a result of e orts or heavy coughing, but it didn't weaken signic cantly her quality of life.

From about 6 months she complains slight loss of urine at rest, which becomes even considerable following a simple laughing, sneezing or slight coughing. For this reason she consulted our urogynecological outpatients clinic.

Anamnesis

Patient's history was characterized by 3 pregnancies. e rst, at age of 24 years, had a physiological course and a spontaneous delivery at 39th gestational week (the infant weight was 3.100 g). e second pregnancy was at age of 27 years and it was characterized by gestational diabetes, treated with insulin; this delivery was spontaneous at 38th gestational week and the infant weight was 4.100 g. e last pregnancy was at age 32 and the delivery was characterized by fetal dystocia and

visit was planned for the following month a er the TOT operation: the woman didn't complain of pain, dysuria, stress or urge incontinence. A er one year the e ectiveness and functionality of Perigee system was the same of the previous controls.

Discussion

is case report is emblematic of the stress urinary incontinence etiopathogenesis. To prevent pelvic oor disorders, therefore, is important to avoid all the risk factors of a traumatic delivery. Besides, our clinical case highlights the e $\,$ ectiveness of TOT operative system in the treatment of cystocele.

Acknowledgment

References

the female pelvic foor and stress continence control system. Scand J Urol

Davis K, Kumar D (2003) Pelvic foor dysfunction: a conceptual framework for