Epidemiology of combined urinary and fecal incontinence

Epidemiología de las incontinencias urinaria y fecal combinadas

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ABSTRACT
The shortage of studies on urinary and fecal incontinence makes difficult the implementation of preventive and therapeutic interventions to address the physical, psychological, and economic problems among patients with these conditions. The lack of national publications and paucity of international literature on the epidemiology of combined urinary and fecal incontinence led to the performance of this literature review.

Keywords: Urinary incontinence/epidemiology; Fecal incontinence/epidemiology

RESUMO
A baixa investigação pelos profissionais de saúde quanto às perdas urinárias e anais, combinadas ou não, dificultam as ações voltadas para sua prevenção e originam problemas com repercussões física, psicológica e econômica. A escassez de publicações nacionais e a reduzida literatura internacional sobre a epidemiologia dessas incontinências combinadas, motivou a realização deste artigo de atualização.

Descritores: Incontinência urinária/epidemiologia; Incontinência fecal/epidemiologia

RESUMEN
Las pocas investigaciones realizadas por los profesionales de la salud en cuanto a las pérdidas urinarias y fecal, combinadas o no, dificultan las acciones volcadas a su prevención y originan problemas con repercusiones física, psicológica y económica. La escasez de publicaciones nacionales y la reducida literatura internacional sobre la epidemiología de esas incontinencias combinadas, motivó la realización de este artículo de actualización.

Descritores: Incontinencia urinaria/epidemiologia; Incontinencia fecal/epidemiologia

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INTRODUCTION

The presence of urinary incontinence (UI) and/or fecal incontinence (FI) are a public health problem. Currently, the small number of investigations by health professionals, and the limited amount of complaints by individuals make it difficult for geared action towards prevention to be taken. Studies show 4% to 35% prevalence for UI [1-2] and 2% to 33% for FI [3-4].

Both incontinences lead to family and friends isolation and to admission of elderly people into nursing homes [5]. Additionally, there are several studies confirming the impact of incontinences on quality of life leading to physical, psychological and social problems [6,7].

The lack of national publications on urinary and fecal incontinence encouraged us to write this article with the objective of presenting the epidemiologic aspects of both incontinences when they are combined.

EPIDEMIOLOGY OF COMBINED URINARY AND FECAL INCONTINENCES

The pelvic floor is a structure similar to a net or trampoline and it is weakened by lateral opening from urethra, vagina and anus. Because of age, urogynecologic and rectal surgeries and sphincter lesions, these structures may present dysfunctions over time and the association of urinary and fecal incontinences is not uncommon [8].

UI is defined as “any kind of unintentional loss of urine” and it is classified into stress incontinence, urge incontinence, mixed incontinence, total urinary incontinence, nocturnal enuresis, overflow incontinence and extra-urethral [9].

FI is the “unexpected leak of feces and/or gases” [10]. Although there are several different classifications, in Brazil, we use that proposed by Jorge and Wexner [11], according to which FI can be mild, moderate and severe. The Fecal Incontinence Index, as it is known, is a scale including characteristics and frequency of loses, the use of protectors and the impact in quality of life, with scores ranging from zero (perfect continence) to twenty (total incontinence). Thus, the three types mentioned correspond from 0 to 7, 8 to 13 and 14 to 20, respectively.

A study on the relationship between anal sphincter lesions and the onset of fecal and urinary incontinence studied 124 postpartum primiparous women who delivered by Cesarean section, 22.9% of them evolved to urinary loses and 7.6% to loses of feces six months after delivery [12].

In another study on socio-demographic characteristics, elimination habits, and lifestyle, 2,492 questionnaires of primiparous women were assessed six months after delivery and prevalence found was 20.6%, 29.6% and 10.4%, respectively for FI, UI and both combined [13].

In the city of Newport, United Kingdom, the association of both incontinences was present in 8.4% of women undergoing treatment in a gynecology clinic. Additionally, this prevalence increased with women's age [14].

In elderly patients over 60 years old, the rates found were 10.9% for FI, 30.1% for UI and 6.2% for the association of both [14].

The few available studies on the combination of both urinary and fecal incontinences show advanced age, obesity, menopause and pelvic surgery [6]; hormonal status, delivery, previous surgery, muscle deficiency, physical damages and medication [15], and the use of forceps during delivery as some of the most important factors related with the development of incontinence.

FINAL CONSIDERATIONS

The literature presents an increased number of publications on the prevalence of UI compared to FI, alone. Many of the factors associated with the genesis of these incontinences are common to both and we have chosen to perform this bibliographic update of the epidemiology of both forms when they are combined. Although, only a few studies were found, combined incontinences are not restricted to people in old age. Some studies have demonstrated statistically significant association between obstetric and surgical factors as previously described.

We hope that the information mentioned in the present study can contribute for further studies of the now better known urinary loses in our environment, in both conditions, in the daily clinical practice and in the university, so that important knowledge can be gained for its prevention and treatment.

REFERENCES

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