# 594 - Multiple sclerosis patients with lower urinary tract symptoms. Is there an adaptation mechanism?

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## Introduction

Lower urinary tract symptoms (LUTS) are a major clinical problem and a significant cause of disability in multiple sclerosis (MS) patients.

MS is a chronic disease that affects relatively young people which makes LUTS have an adverse effect on the quality of life of patients for many years.

There are no studies that investigate the adaptation of MS patients towards these LUTS.

The aim of this study is to evaluate for the first time the evolution of LUTS in reference to the duration of MS disease and the adaptation that might happen with time.

## Methods

40 patients with MS and LUTS were recruited between July and November 2017.

Patients who have other causes for their urinary symptoms were excluded from the study.

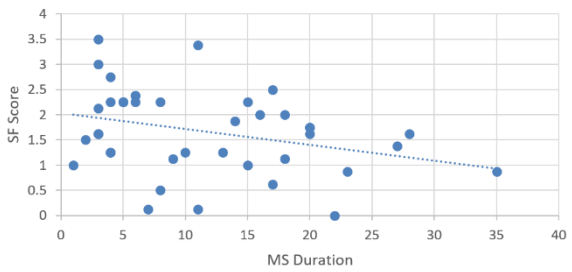
Information including the patients age, duration of MS, voiding and filling LUTS, UBQMS (1), OABSS, IPSS-V and urologic quality of life (SF-QUALIVEEN) (2) was gathered through questionnaires during personal interviews.

Correlation was studied using bivariate correlation test to measure the linear relation between variables.

## Results

| | |
|---|---|
| Sexe Ratio | 1/1 |
| Age | 43 ± 10 years |
| MS Duration | 11.6 ± 8 years |
| UBQMS-F | 1.98 ± 1 |
| UBQMS-V | 1.55 ± 1.1 |
| SF-QUALIVEEN | 1.66 ± 0.8 |

| | UBQMS-F | UBQMS-V | OABSS | IPSS-V | SF-QUALIVEEN |
|---|---|---|---|---|---|
| **Age** | <0.01 (r= -0.415) | 0.7 | 0.54 | 0.7 | 0.049 (r= -0.313) |
| **MS** | 0.03 (r= -0.344) | 0.7 | 0.49 | 0.46 | 0.046 (r= -0.317) |




## Conclusions

Even though age and longer duration of MS were not correlated with the severity of LUTS or with UBQMS-voiding score, there was a significant negative correlation with UBQMS-filling score and urologic quality of life, which translates into an adaptation with time towards filling LUTS.

This is the first time that an adaptation mechanism is demonstrated in MS patients with LUTS that makes them less affected by the severity of their filling LUTS with time.

## References

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