





NIGHT SHIFT WORKERS HAVE HIGHER OVERACTIVE BLADDER SCORE WITH AN IMPAIRMENT OF QUALITY OF LIFE: A PROSPECTIVE COHORT STUDY AFTER TRANSURETHRAL

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<u>Aim</u>

Night shift works may have adverse health effects on several anatomical systems through the developing of sleep disorders. Little is known about the impact of night work on LUTS **Aim to evaluate the impact of night shift work on patients with urinary symptoms**

Materials & Methods

- ✓ Study period: From March 2018 to October 2018
- ✓ Population: 136 participants (68 male and 68 females) internal survey enrolling subjects working in the national healthcare system and performing night shifts or traditional work hours (from 6am to 2pm)
- ✓ International validated questionnaires Overactive Bladder Questionnaire (OABq)

Population	Mean ± SD		
Subjects	136		
Males	68		
Females	68		
Nurses	68		
Doctors	68		
TWs	70		
NSWs	66		
Age	39,5 ± 9,5		
BMI	23,3 ± 2,7		
Work hours per night	11,0 ± 1,5		
Work hours per day	8,7 ± 1,7		
Night work hours per week	k 13,0 ± 4,6		
Daily work hours per week	41,4 ± 1,8		
OABq total score	26,1 ± 8,3		
OABq Symptom bother	9,3 ± 4,1		
OABq Quality of Life	16,7 ± 4,6		
Nocturia	8 (6%)		

- symptoms bother
- quality of life
- ✓ Clinical variables were collected too (i.e. age and medical history)
- ✓ Collected data were analyzed in according to being night shift workers (NSWs) or traditional workers (TWs) through descriptive methods
- ✓ Univariate and multivariate analysis was performed

<u>Results</u>

	Risk OABq total score > 30		Risk of OAB symptoms bother ≥ 12		Risk of OAB quality of life ≥18	
	OR (CI)	р	OR (CI)	р	OR (CI)	р
Age	1,04 (0,99-1,10)	0,10	1,04 (0,99-1,09)	0,08	1,07 (1,01-1,13)	0,01
NSW	30 (9-111)	0,01	16 (6-43)	0,01	20 (6-70)	0,01

	NSW	тw	р
Subjects	66	70	
Male	31	37	
Female	35	33	
Nurses	40	28	
Doctors	26	42	
Age	39,0 ± 8,0	40,0 ±10,5	0,38
Work hours per night	11,0 ± 1,5	0	
Work hours per day	8,2 ± 1,4	9,1 ± 1,9	0,05
Night work hours per week	13,0 ± 4,6	0	
Daily work hours per week	35,7 ± 10,4	46,7 ± 10,5	0,01
OABq Total score	31	19	0,01
OABq Symptom bother	11	6	0,01
OABq Quality of life	19	13	0,01
Nocturia	7 (10%)	1 (1%)	0,02
BMI	23,7 ± 2,4	23,0 ± 3,0	0,12

Conclusion

Healthy subjects less than 50 years old performing night shift work presented worst OAB symptoms and poor QL when compared to similar traditional workers Long term data on NSWs patients are also needed to further clarify this relationship