

Female Sexual Dysfunction Risk Factors in Diabetic Women

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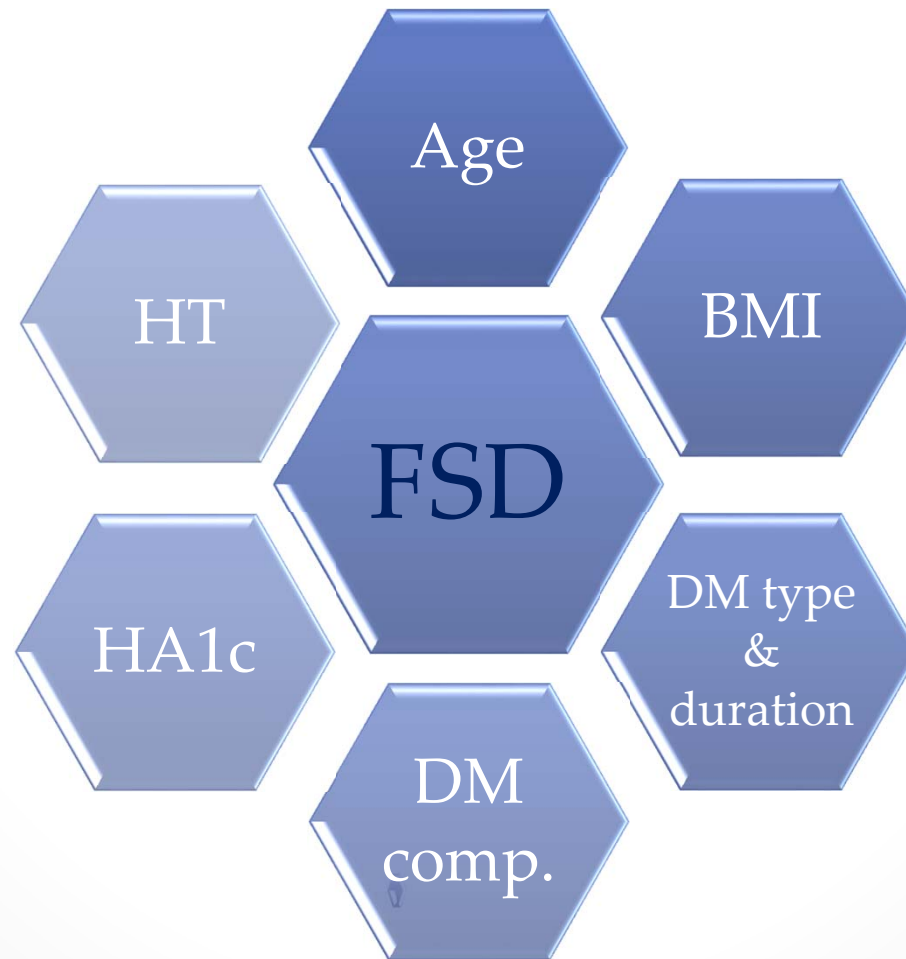
Introduction

- Female sexual dysfunction (FSD) is a multidisciplinary issue associated with biological, medical and psychological factors.
- Diabetes mellitus (DM) causes vascular, neuronal and hormonal dysfunction which can cause structural and functional changes in female genitalia and may impair sexual response.
- Overall studies suggest that women with DM report more FSD compared to their normal counterparts.

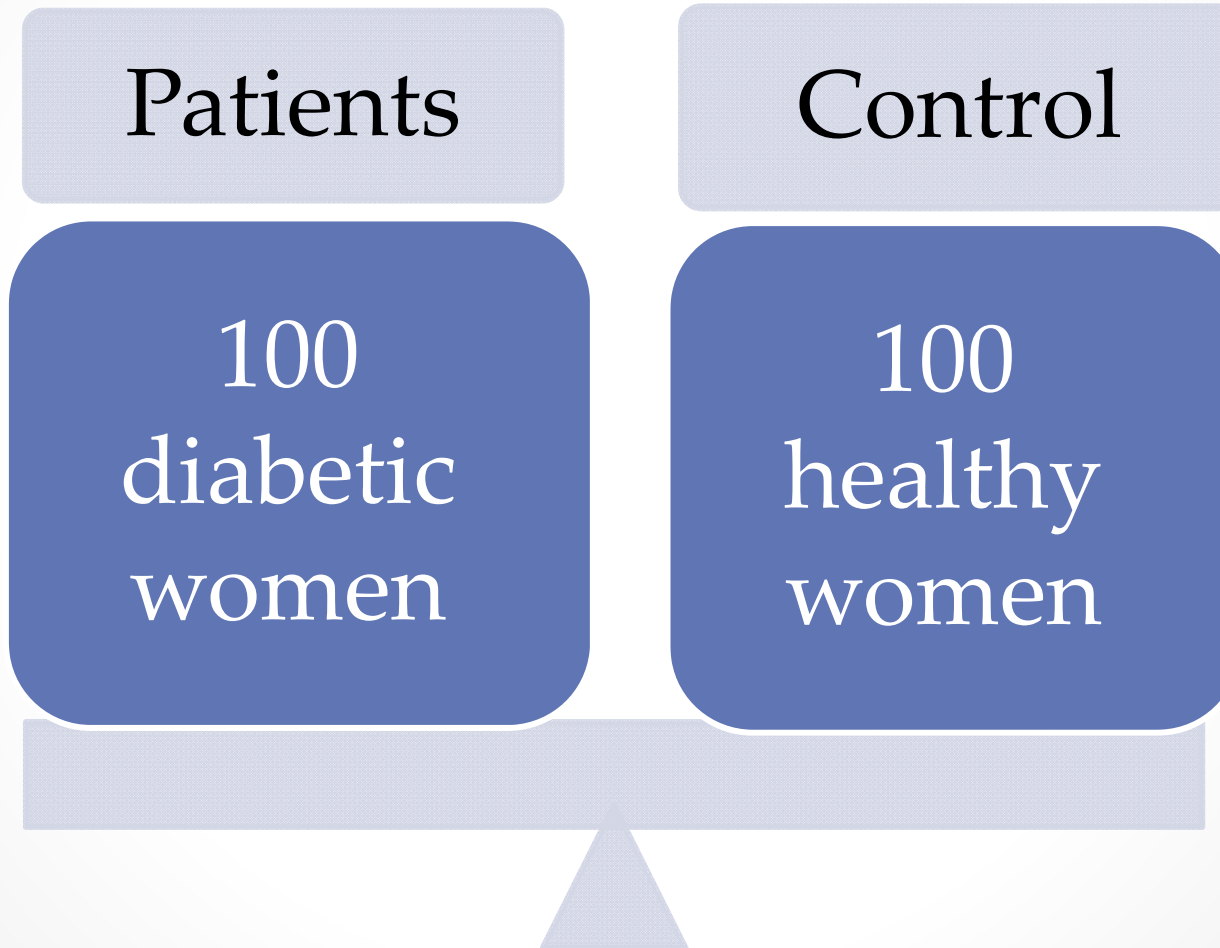


Aim of the study

- To assess the female sexual dysfunction risk factors among women with diabetes mellitus.



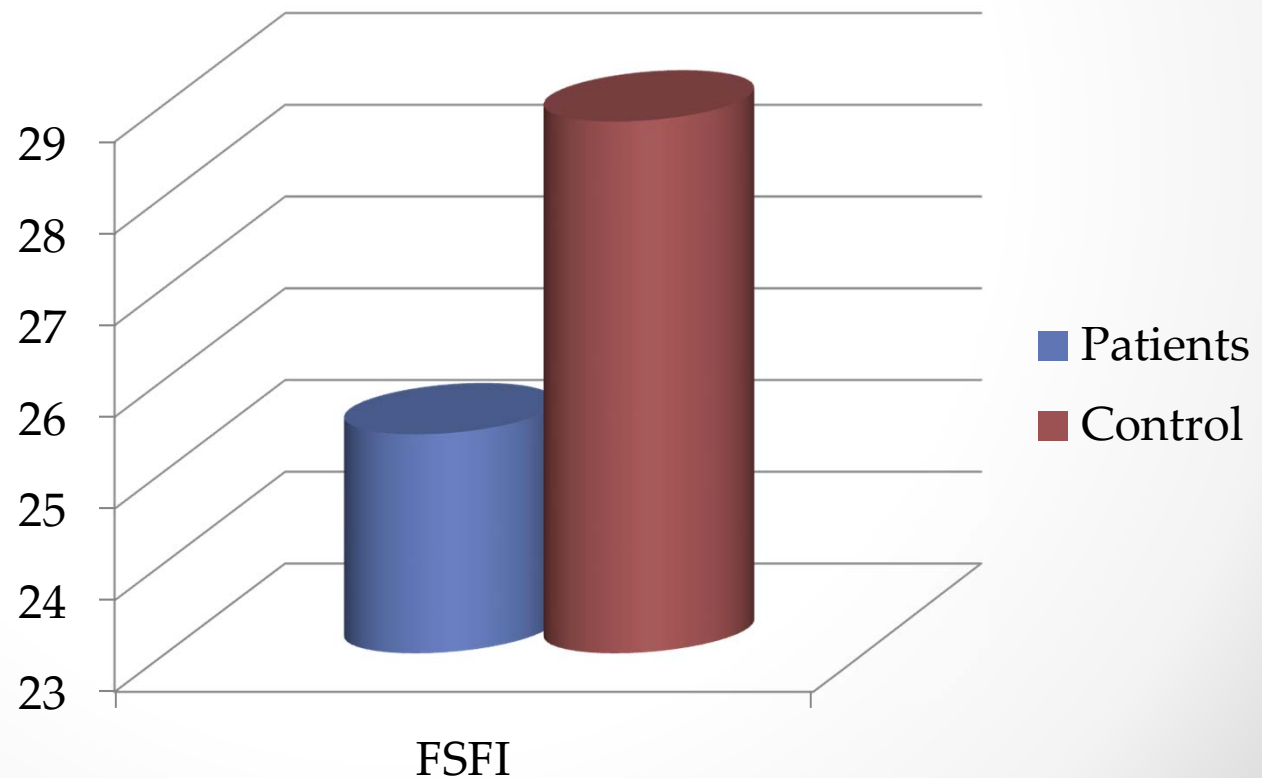
Material and methods



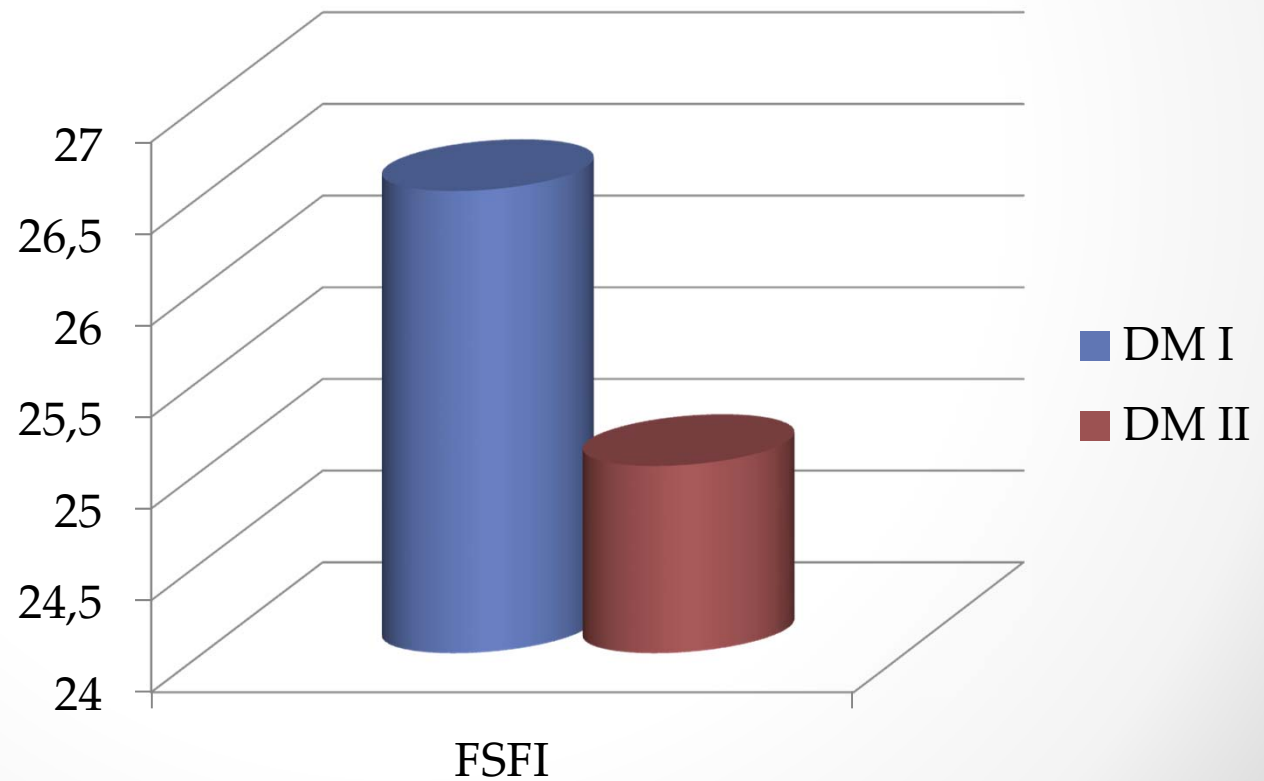
- All participants underwent
 - Full history taking
 - General and genital examination
 - Glycated hemoglobin (HbA1c) level
 - Sexual function assessment by the Arabic version of the Female Sexual Function Index (FSFI)

Results

- FSFI score was significantly lower in patients (25.39 ± 3.25) compared to control (28.84 ± 4.26) ($P=0.000$).



- FSFI full score was significantly lower in patients with type II DM (25.02 ± 3.21) compared to type I DM (26.51 ± 3.19) ($P=0.047$).



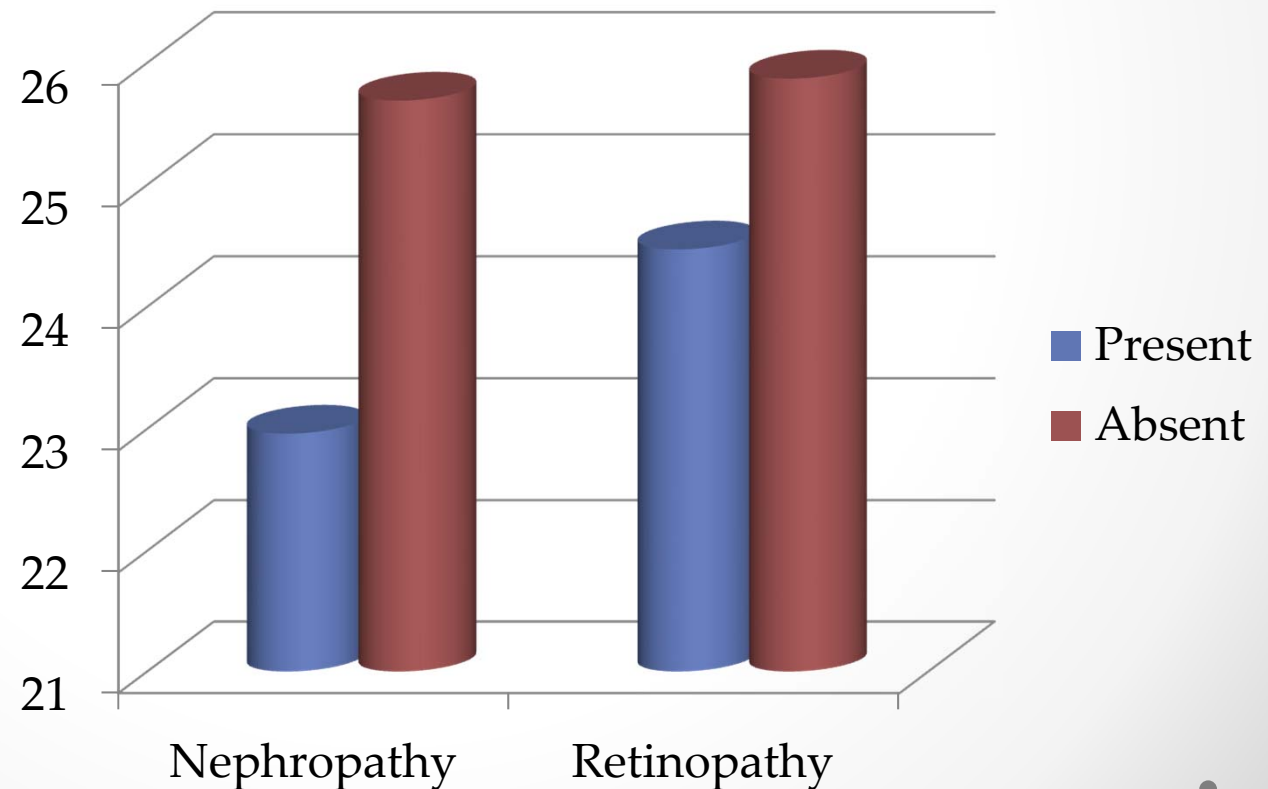
Comparison between FSFI domains scores in both **types of DM**

	Type of DM		P-value
	Type I	Type II	
	Mean \pm SD	Mean \pm SD	
Desire	3.96 \pm 0.57	3.50 \pm 0.61	0.001
Arousal	4.48 \pm 0.76	4.01 \pm 0.84	0.016
Lubrication	4.58 \pm 0.94	4.32 \pm 0.86	0.190
Orgasm	3.78 \pm 1.17	3.37 \pm 1.09	0.117
Satisfaction	4.70 \pm 0.79	4.80 \pm 0.60	0.549
Pain	5.01 \pm 0.97	5.03 \pm 0.73	0.908
Full score	26.51 \pm 3.19	25.02 \pm 3.21	0.047

Correlations between **HA1c** and FSFI domains

Domain	r-value	P-value
Desire	-0.138	0.171
Arousal	-0.383	0.000
Lubrication	-0.197	0.050
Orgasm	-0.016	0.871
Satisfaction	0.022	0.828
Pain	-0.242	0.015
Full Score	-0.239	0.016

- As regards DM complications, patients with nephropathy or retinopathy had lower FSFI score compared to those without (P=0.008, P=0.042 respectively)



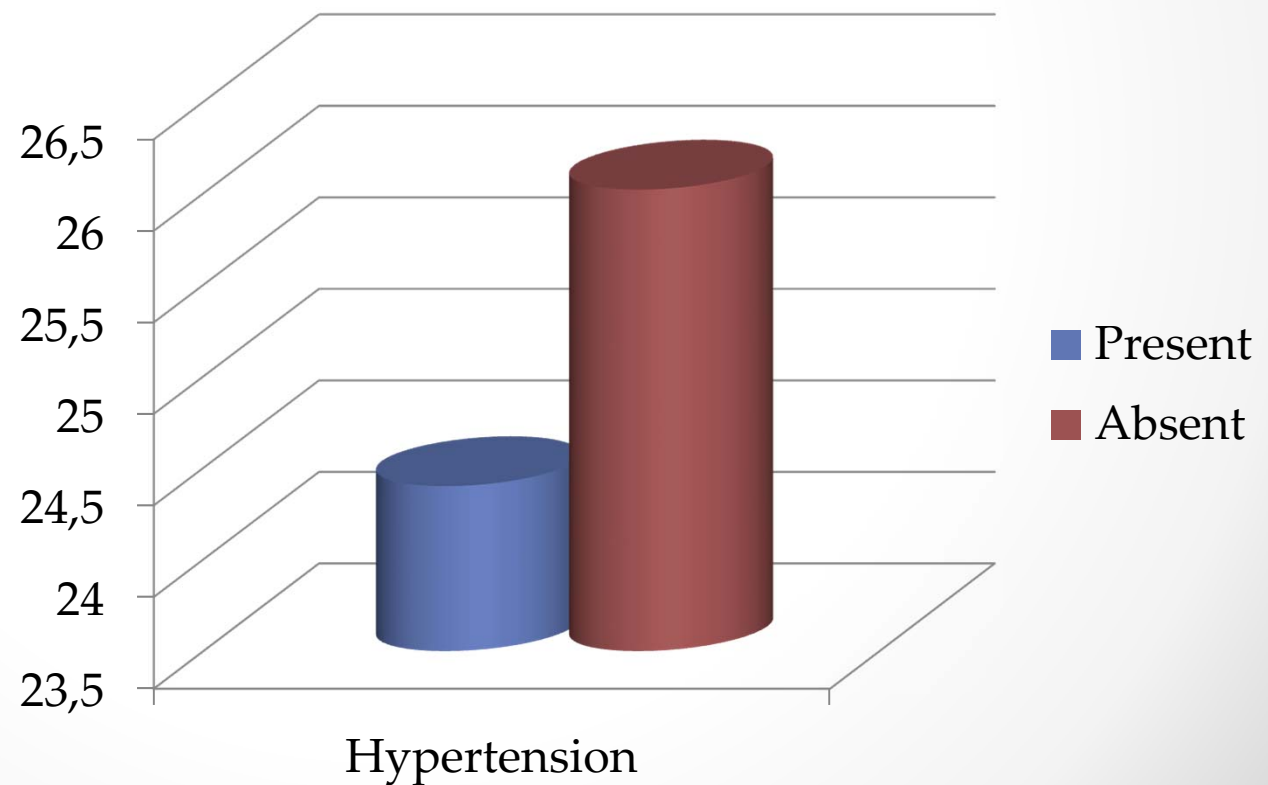
FSFI domain scores in patients with and without diabetic **nephropathy**

	Nephropathy		P-value
	Present	Not present	
	Mean \pm SD	Mean \pm SD	
Desire	3.22 \pm 0.62	3.66 \pm 0.62	0.028
Arousal	3.38 \pm 0.62	4.22 \pm 0.82	0.001
Lubrication	3.82 \pm 0.70	4.45 \pm 0.88	0.024
Orgasm	3.38 \pm 0.68	3.48 \pm 1.16	0.778
Satisfaction	4.84 \pm 0.12	4.76 \pm 0.69	0.730
Pain	4.33 \pm 0.94	5.11 \pm 0.73	0.002
Full score	22.96 \pm 0.99	25.69 \pm 3.31	0.008

FSFI domain scores in patients with and without diabetic
retinopathy

	Retinopathy		P-value
	Present	Not present	
	Mean \pm SD	Mean \pm SD	
Desire	3.49 \pm 0.65	3.67 \pm 0.62	0.182
Arousal	3.94 \pm 0.83	4.23 \pm 0.84	0.100
Lubrication	4.18 \pm 0.84	4.49 \pm 0.89	0.103
Orgasm	3.46 \pm 0.99	3.48 \pm 1.18	0.933
Satisfaction	4.52 \pm 0.89	4.90 \pm 0.43	0.005
Pain	4.88 \pm 0.95	5.10 \pm 0.69	0.201
Full score	24.47 \pm 3.14	25.87 \pm 3.23	0.042

- Moreover, patients with associated hypertension showed significantly lower FSFI compared to those with normal BP (P=0.014)

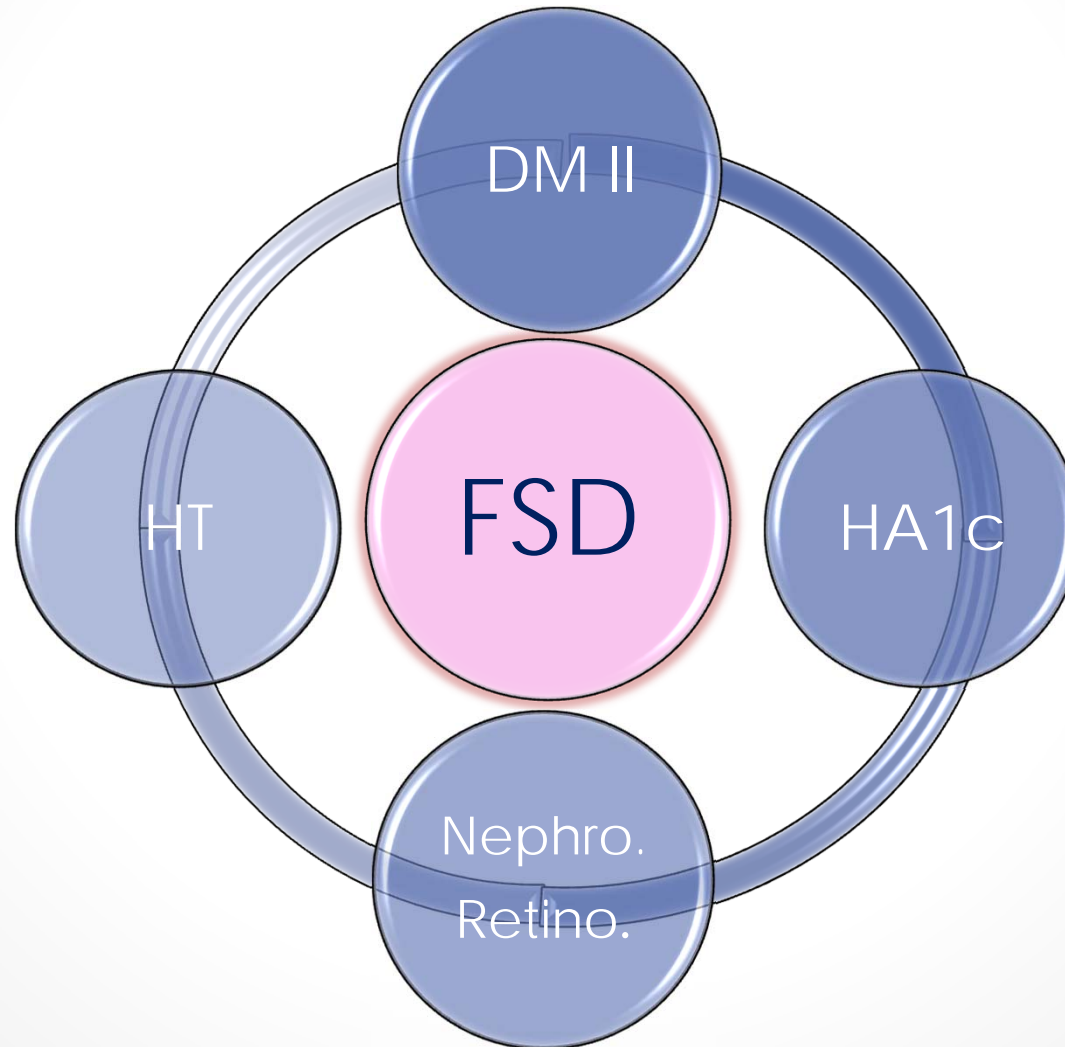


FSFI domain scores in diabetic patients with and without **hypertension**

	Hypertension		P-value
	Present	Not present	
	Mean \pm SD	Mean \pm SD	
Desire	3.64 \pm 0.61	3.57 \pm 0.67	0.591
Arousal	4.31 \pm 0.84	3.84 \pm 0.76	0.005
Lubrication	4.53 \pm 0.83	4.15 \pm 0.92	0.037
Orgasm	3.62 \pm 1.23	3.24 \pm 0.89	0.098
Satisfaction	4.85 \pm 0.53	4.65 \pm 0.80	0.123
Pain	5.07 \pm 0.80	4.95 \pm 0.79	0.482
Full score	26.02 \pm 3.40	24.40 \pm 2.77	0.014

- On the contrary, no significant correlation was detected between FSFI score and
 - Age (P=0.813, r=-0.024)
 - Duration of DM (P=0.808, r=0.025)
 - Waist circumference (P=0.292, r=-0.106)
 - Body Mass Index (P=0.292, r=-0.106)

Conclusion



THANK YOU

