

Traitement de l'HBP, les nouveautés en 2008

- **Syndrome Métabolique**
- **Toxine Botulique A**
- **Inhibiteurs de la Phosphodiesterase**
- **TRT Combinés**
- **Radiofréquences**

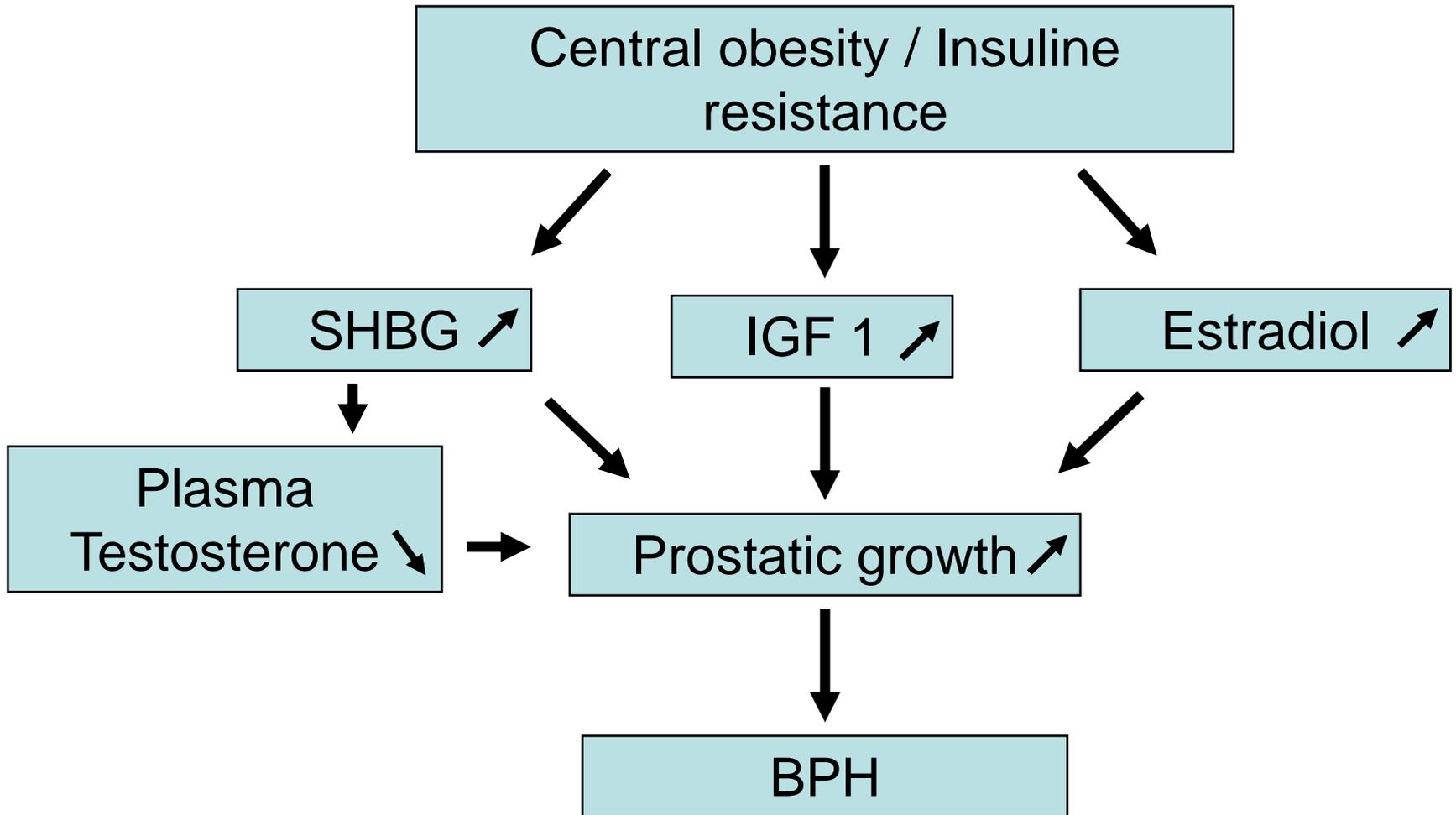
Syndrome métabolique chez l'homme : définition de l'IDF (International Diabetes Federation)

Obésité central : Tour de taille > 102 cm

Plus l'un des 4 éléments suivants :

- ✓ PA > 130 mmHg systolique, ou ≥ 85 mmHg diastolique, ou TRT en cours d'un HTA déjà diagnostiquée
- ✓ Hyperglycémie provoquée ≥ 5.6 mmol/L ou diabète déjà diagnostiqué
- ✓ Triglycerides ≥ 1.7 mmol/L ou traitement en cours
- ✓ HDL Cholesterol < 1.03 mmol/L ou traitement en cours

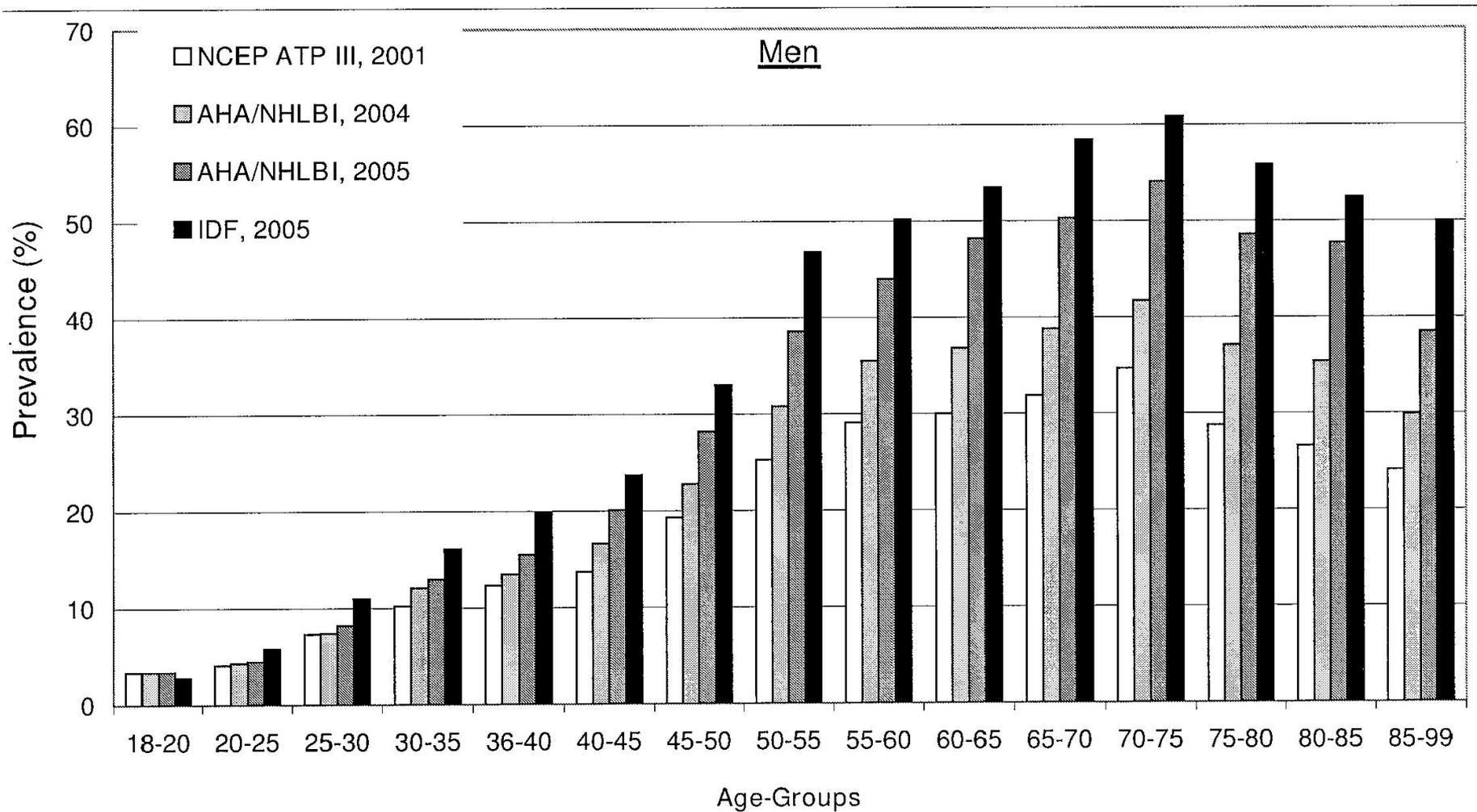
Syndrome Métabolique et HBP



Syndrome métabolique et hypertonie sympathique



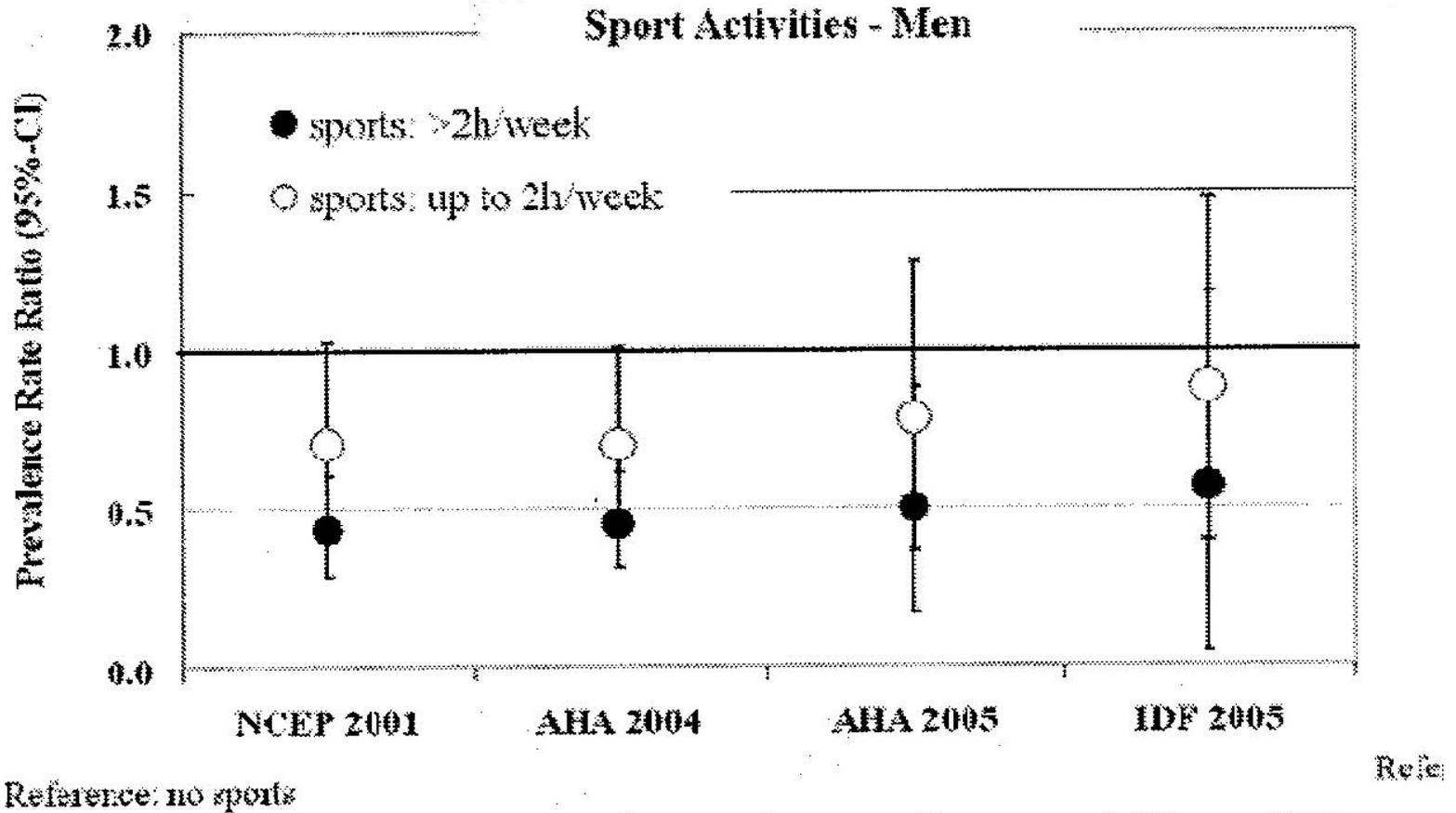
Prévalence du syndrome métabolique Allemagne



Facteur de risque du syndrome metabolique



Sédentarité



Syndrome Metabolique et HBP

Association Between Waist Circumference and Parameters Associated with Voiding and Sexual Health

Waist Circumference (inches)	30 - 36 (n = 27)	36 - 40 (n = 36)	> 40 (n = 25)	P value
Age, years	61.39	62.36	63.89	< 0.08
PV, cc	28.53	31.67	36.78	< 0.001
PSA, ng/mL	2.32	2.92	3.54	< 0.003
IPSS at Screening	11.57	13.67	15.78	< 0.001
Diabetic, %	11.2	22.3	34.5	0.001
Hypertension, %	12.6	24.7	37.8	0.001
Qmax, mL/sec	10.6	9.45	8.65	0.03
ED, %	34.6	49.5	78.6	0.002
EjD, %	27.8	47.2	74.5	0.002

Syndrome Metabolique et HBP

Association between PV and metabolic syndrome parameters

	Prostate volume			p value
	5-<30 cc (n=1479)	30-50 cc (n=3630)	>50-80 cc (n=2781)	
Age, years	61.39	62.36	63.89	<0.0001
PV, cc	23.59	39.80	61.84	-
PSA, ng/mL	5.48	5.79	6.25	<0.0001
IPSS at screening	8.21	9.05	10.26	<0.0001
BMI, kg/m ²	26.75	27.21	27.82	<0.0001
Obese, %	15.98	19.07	24.09	<0.0001
Diagnosed BPH, %	54.67	64.26	73.87	<0.0001
Diabetic, %	7.78	8.22	9.22	0.2031
Hypertension, %	35.37	36.72	41.12	0.0001
Triglycerides, mmol/L	1.69	1.68	1.69	0.9057
Cholesterol, mmol/L	5.55	5.48	5.43	0.0055
Insulin, pmol/L	78.71	80.17	88.33	0.0004
HDL, mmol/L	1.32	1.31	1.27	<0.0001
LDL, mmol/L	3.48	3.42	3.41	0.0990
Glucose, mmol/L	5.84	5.88	6.00	<0.0001

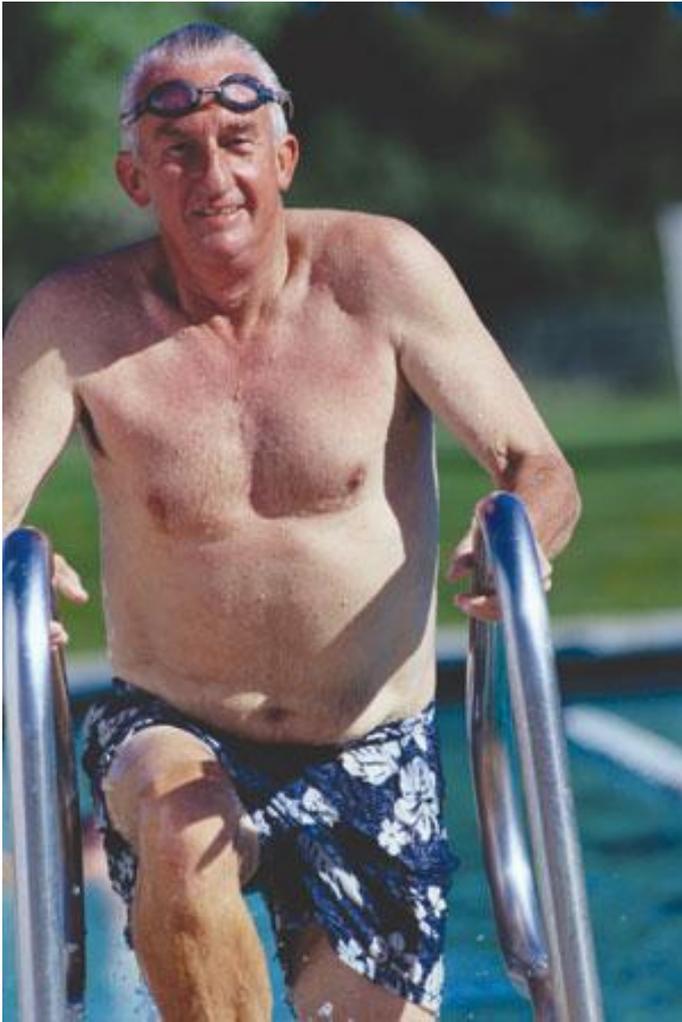
Data are presented as mean values unless stated otherwise

P values correspond to the differences among the three PV categories

Prevention et traitement du syndrome métabolique

Perte de poids (7%) et activité physique régulière (120 min /semaine) ...

Age: 72, IPSS: 15, Prostate: 55g, PSA: 3.5 ng/ml,
Résidu post-mictionnel: 70 ml
TOUR DE TAILLE = 107 cm



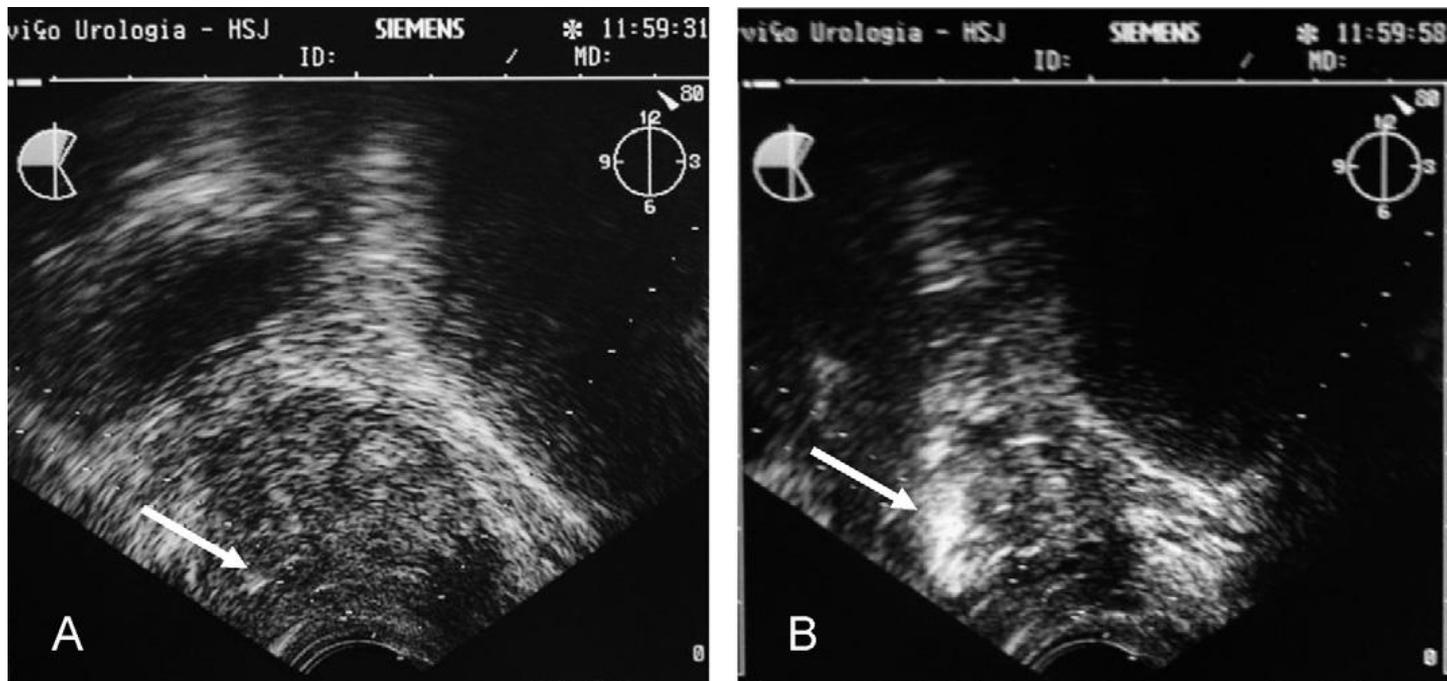
**Traitement de première
intention ?**

Durée de traitement ?

Toxine Botulique A

- Bloque la neurotransmission au niveau synaptique
- Son injection dans la prostate provoque une apoptose et une réduction du volume prostatique (rat) (Doggweiler R 1998)

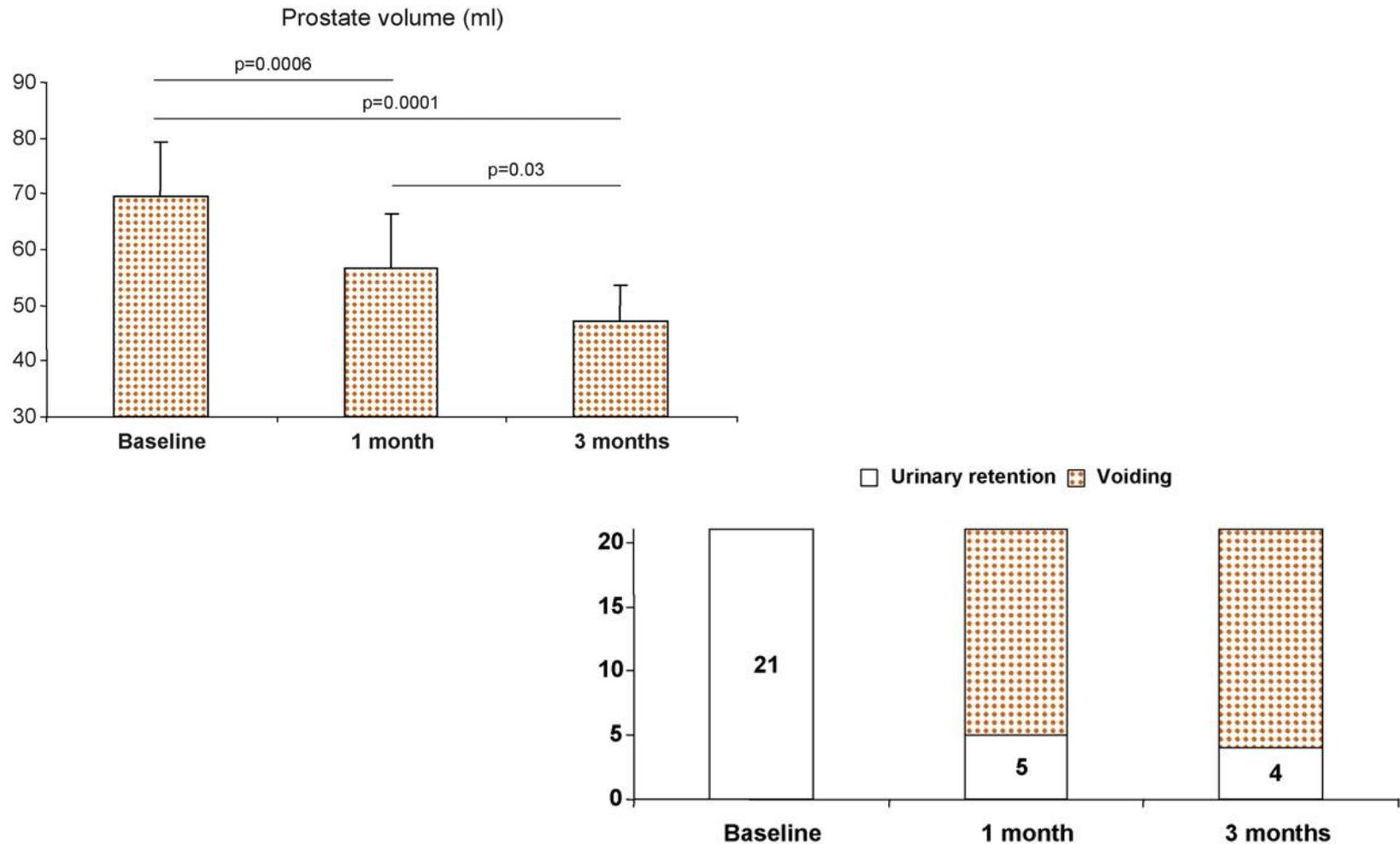
Botox dans la rétention urinaire



Two vials of Botox1, each one containing 100 U of neurotoxin (Allergan, Irvine, CA, USA) were diluted in 8 ml of saline. Transperineally injected in the TZ under local anesthesia.

22 patients on chronic indwelling catheter for at least 3 months

Botox dans la rétention urinaire

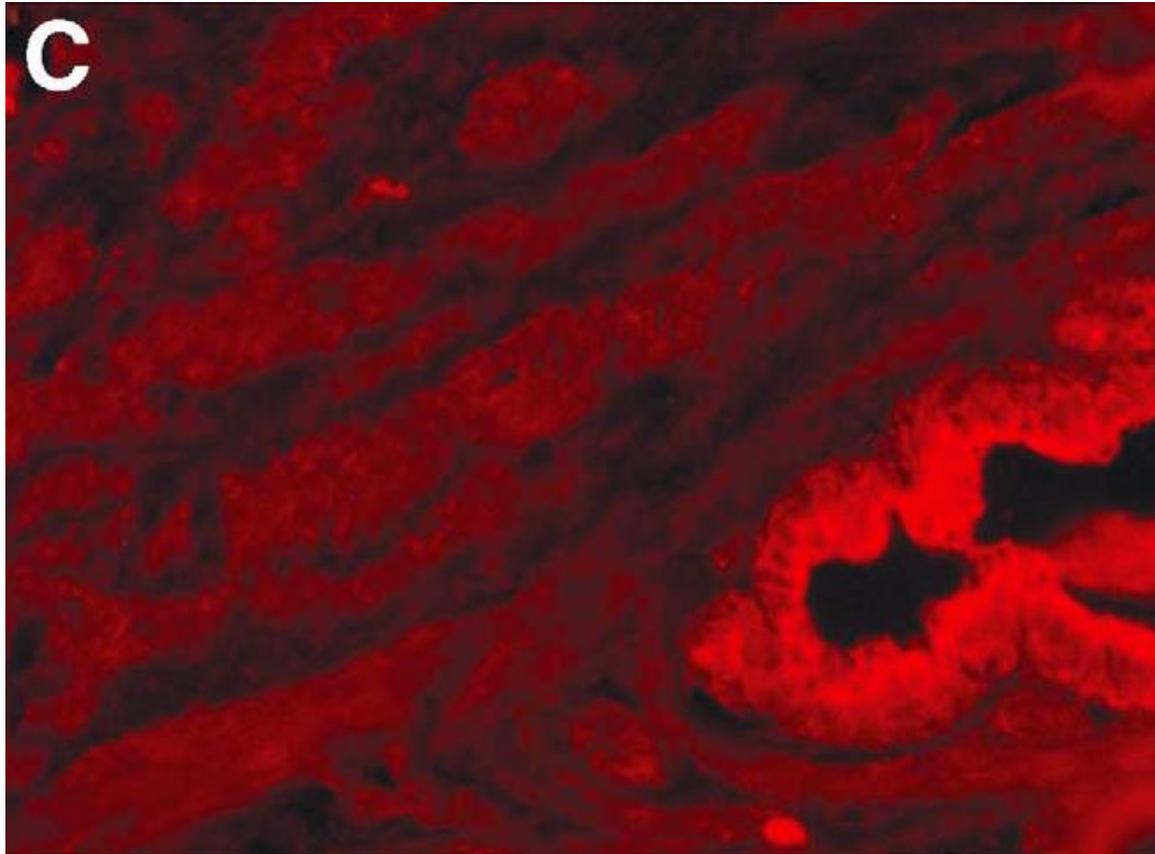


Inhibitors Phosphodiesterase type 5

- le NO (Nitric oxide) est responsable de la relaxation musculaire dans les corps caverneux, la vessie et la prostate.
- Les inhibiteurs sildenafil, tadalafil, vardenafil augmentent la concentration du NO dans les muscles lisses, facilitant l'érection et la relaxation du col vésical et de la prostate.

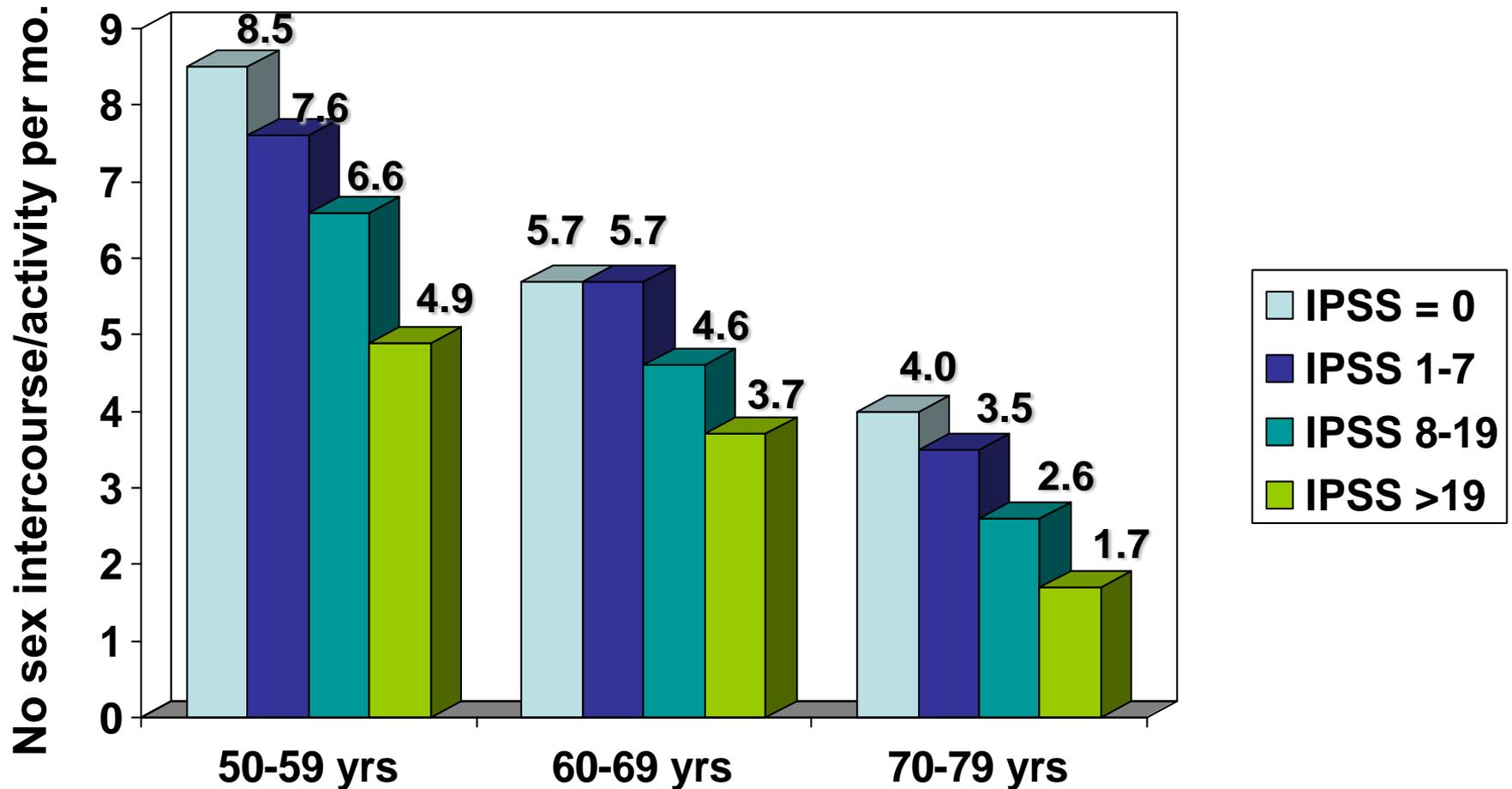
Phosphodiesterase type 5 inhibitors

Presence of PDE isoenzymes 4, 5 and 11 in the transition zone of the human normal prostate



Dense immunofluorescence (TR) specific for PDE5 (cGMP-specific PDE) in glandular and subglandular structures of the transition zone

L'activité sexuelle décroît avec l'âge et les TUBA



MSAM-7 Multinational Survey of the Ageing Male in 7 countries

PDE 5 : Sildenafil et HBP

Table 1

Results of the Use of Alfuzosin, Sildenafil, or a Combination of Both on Lower Urinary Tract Symptoms and Erectile Dysfunction Measures

	Alfuzosin Baseline (n = 20)	Alfuzosin at 12 Weeks	Sildenafil Baseline (n = 21)	Sildenafil at 12 Weeks	Combination Baseline (n = 21)	Combination at 12 Weeks
IPSS	17.3	14.6	17.8	14.9	17.3	13.5
Q _{max} (mL/s)	9.4	10.5	9.7	10.3	9.5	11.5
PVR (mL)	54	31	46	34	53	32
Frequency (voids/day)	8.7	6.4	9.1	7.8	9.3	6.1
Nocturia (voids/night)	2.9	1.8	2.6	2.1	3.1	1.8
IEF	17.4	20.3	14.3	21.4	16.2	25.7

IPSS, International Prostate Symptom Score; Q_{max}, peak urinary flow rate; PVR, postvoid residual urine; IEF, International Index of Erectile Function. Reproduced from Kaplan SA et al.¹⁷ with permission from the American Urological Association.

PDE 5 : Tadalafil et HBP

Table 2
Efficacy Results for Use of Daily-Dosed Tadalafil 5 mg, Tadalafil 5/20 mg, and Placebo at 6 and 12 Weeks

	Placebo 6 wk	Tadalafil 5 mg 6 wk	P Value	Placebo 12 wk	Tadalafil 5/20 mg 12 wk	P Value
n	143	138		143	138	
IPSS*	-1.2 ± 0.47	-2.8 ± 0.48	.001	-1.7 ± 0.49	-3.8 ± 0.50	< .001
IPSS QOL*	-0.2 ± 0.11	-0.5 ± 0.11	.017	-0.3 ± 0.12	-0.7 ± 0.12	.008
BII*	-0.4 ± 0.21	-0.7 ± 0.22	.107	-0.6 ± 0.23	-1.3 ± 0.23	.008
LUTS GAO, endpoint (% yes)	32.6	55.9	< .001	37.7	57.4	< .001

*Change from baseline, least-squares mean ± standard error.

IPSS, International Prostate Symptom Score; QOL, quality of life; BII, Benign prostatic hyperplasia Impact Index; LUTS GAO, lower urinary tract symptoms global assessment question. Reproduced from Roehrborn C et al.²⁶ with permission from the American Urological Association.

PDE 5 : Vardenafil et HBP

Vardenafil : prospective randomised study

Vardenafil 10 mg x 2 / jour (n=108) vs placebo (n=113)

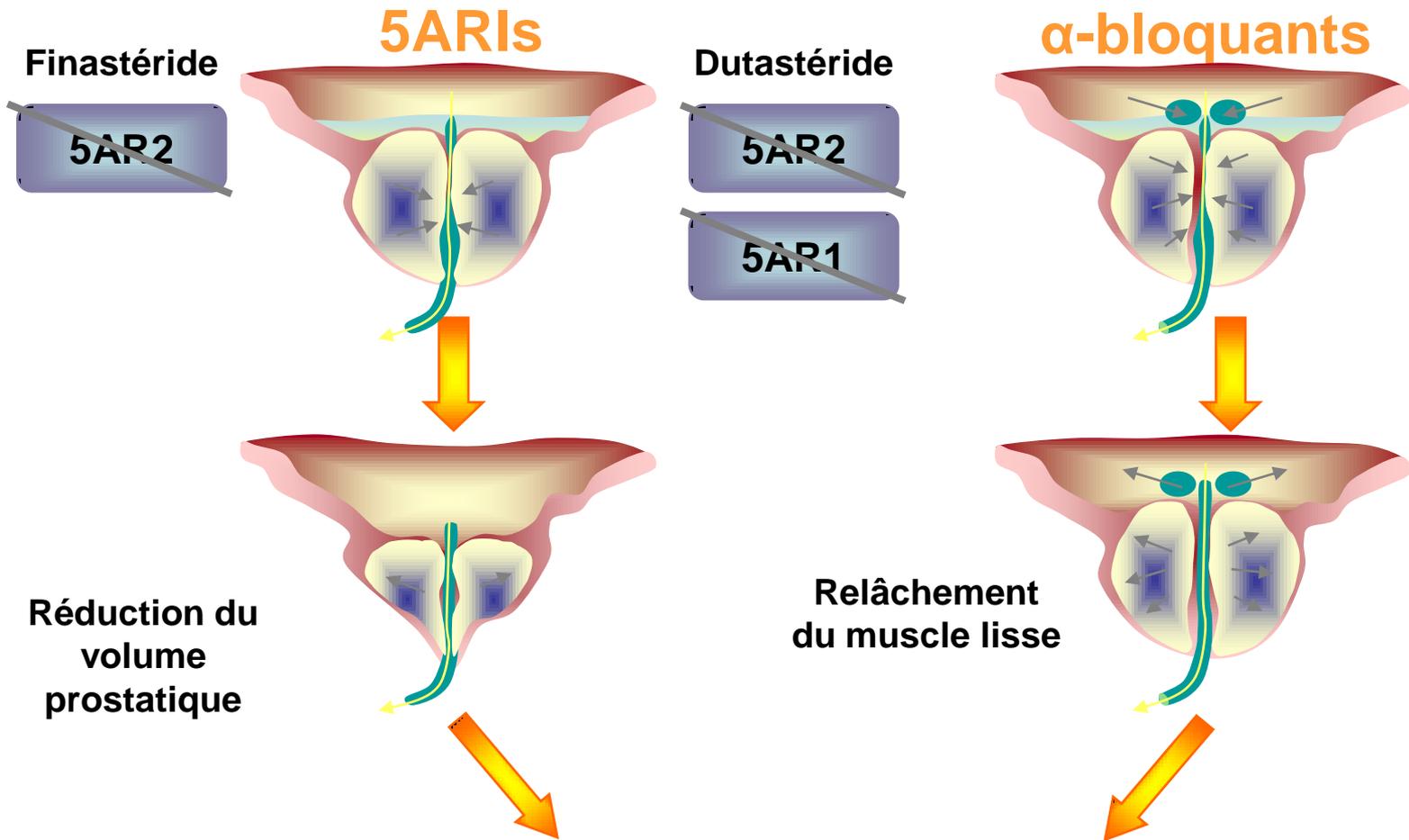
At 8 weeks :

IPSS reduction of 5.8 vs 3.8 points (p=0.0013)

IIEF increase of 7.5 vs 1.5 points (p=0.0001)

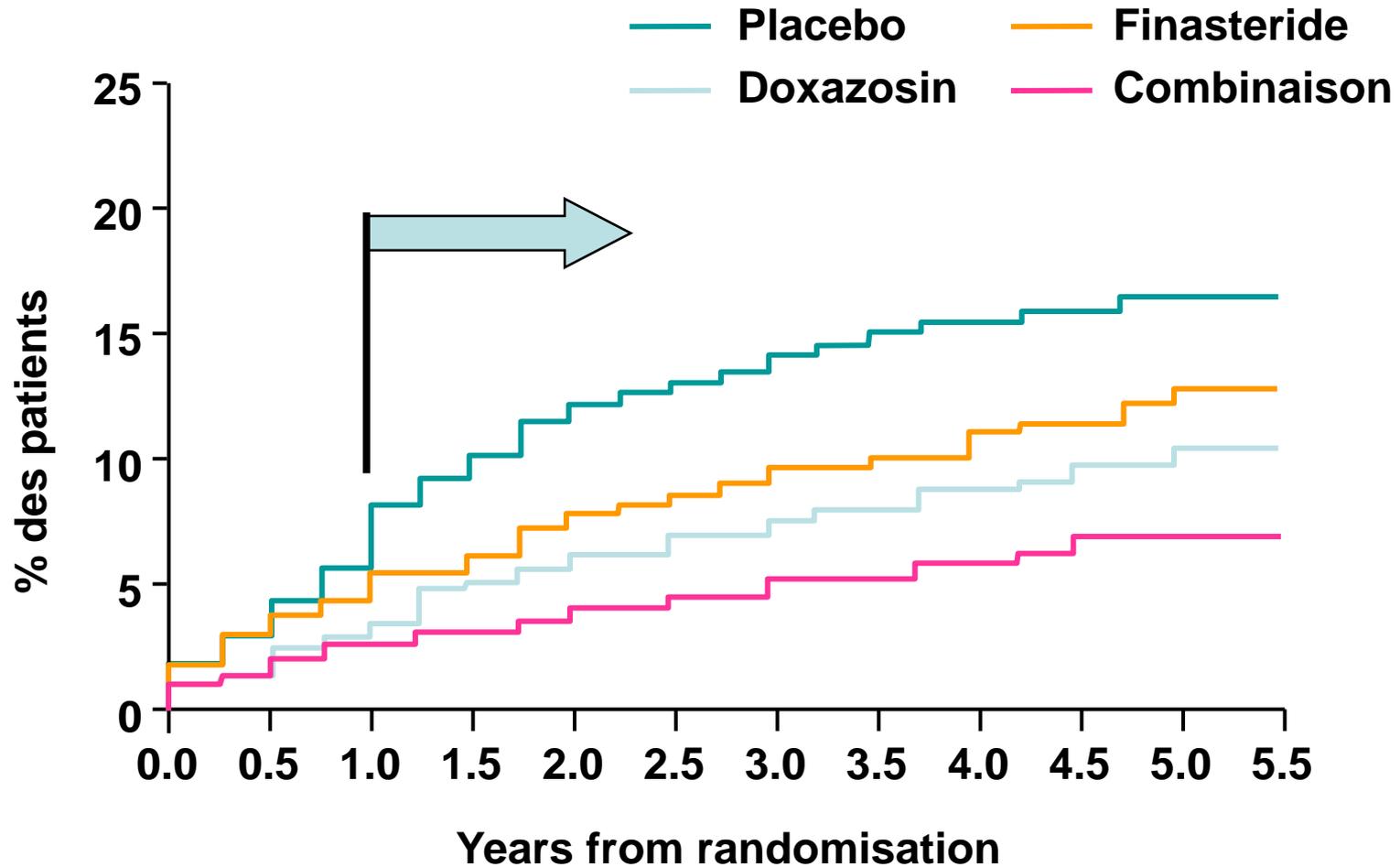
Traitements combinés

- ✓ Alpha-bloqueurs et 5 ARI
- ✓ Alpha-bloqueurs et anticholinergiques

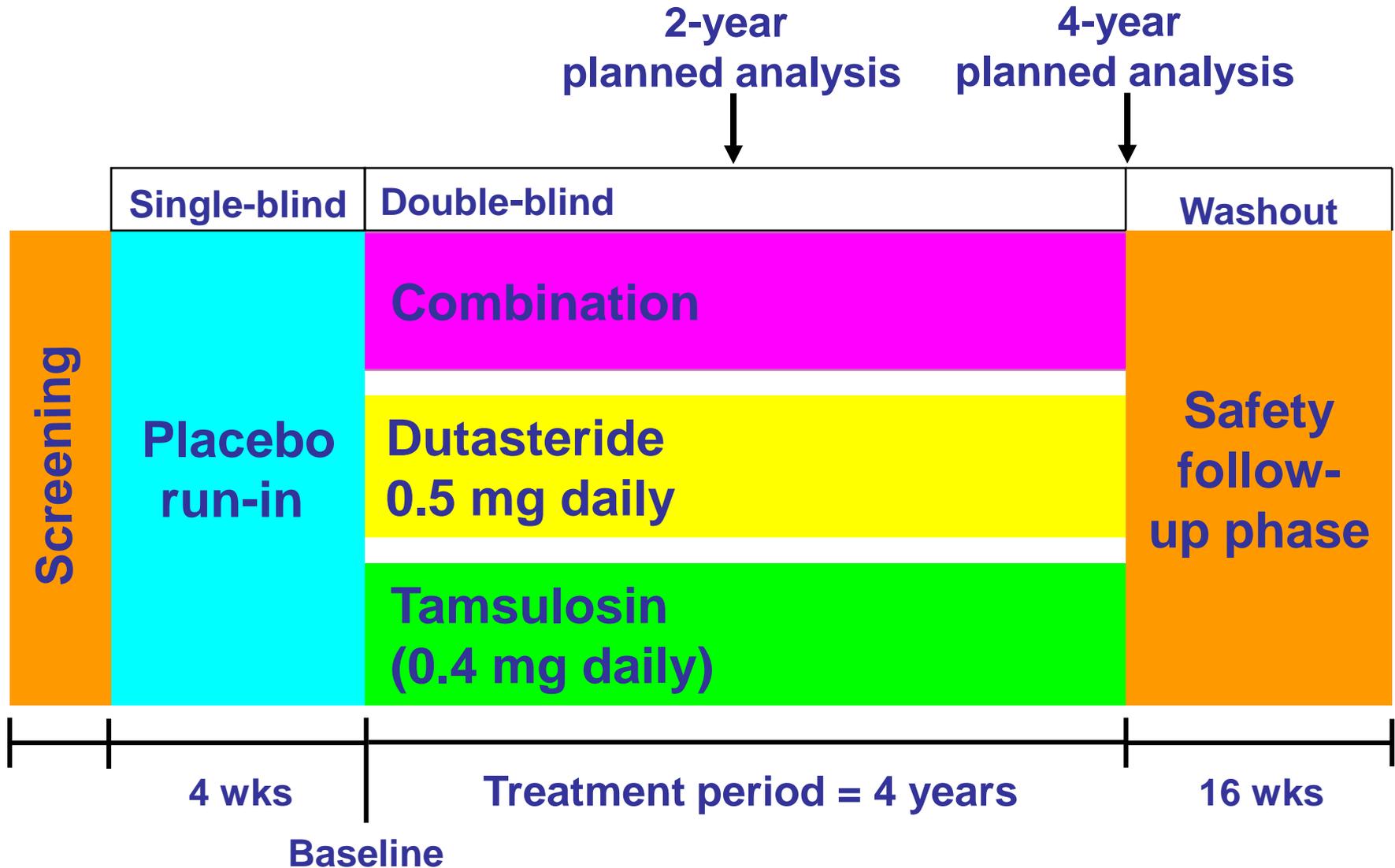


Le traitement par association permet une diminution rapide et durable de la gêne due aux symptômes et la réduction de progression

MTOPS: Aggravation symptomatique

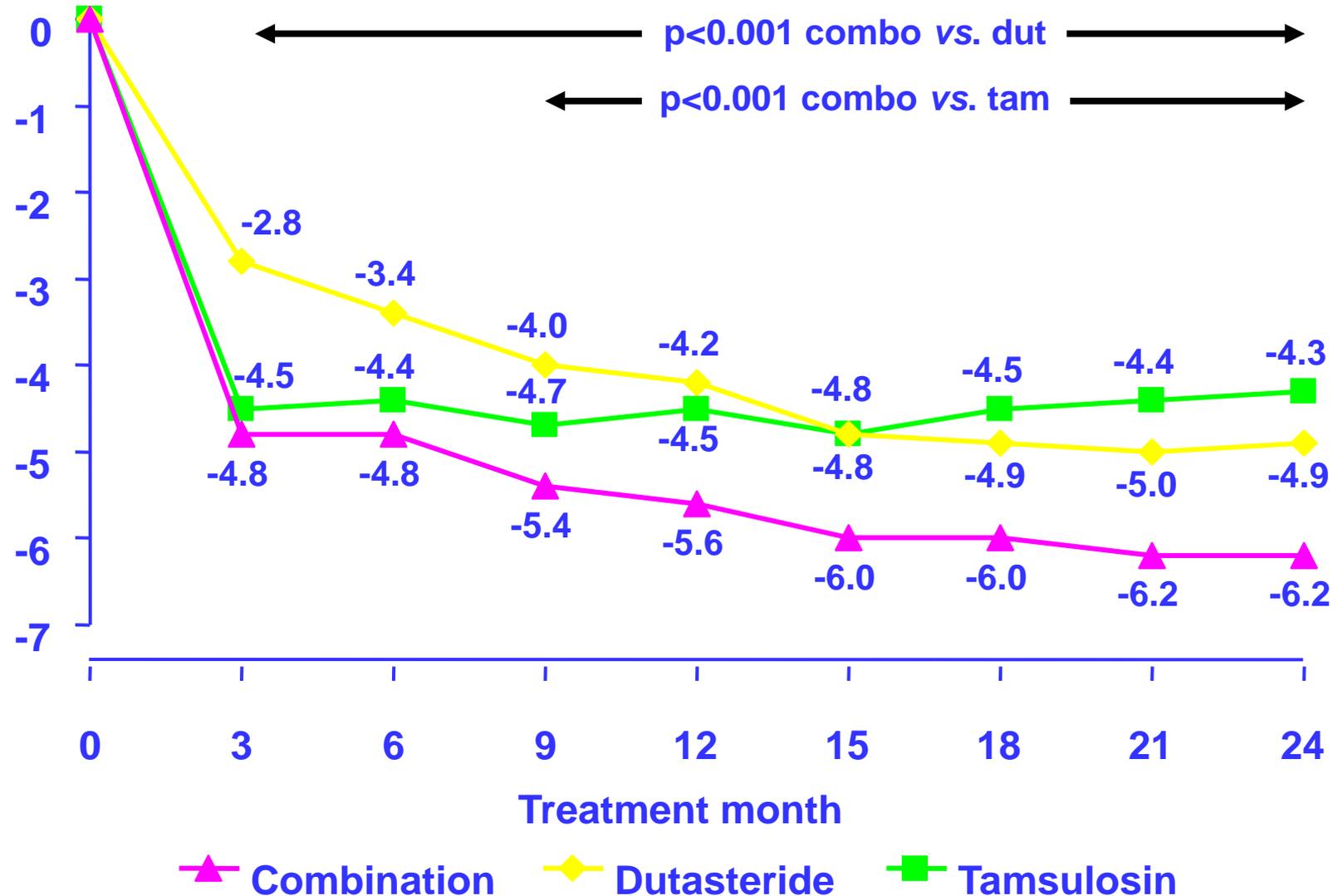


CombAT study design



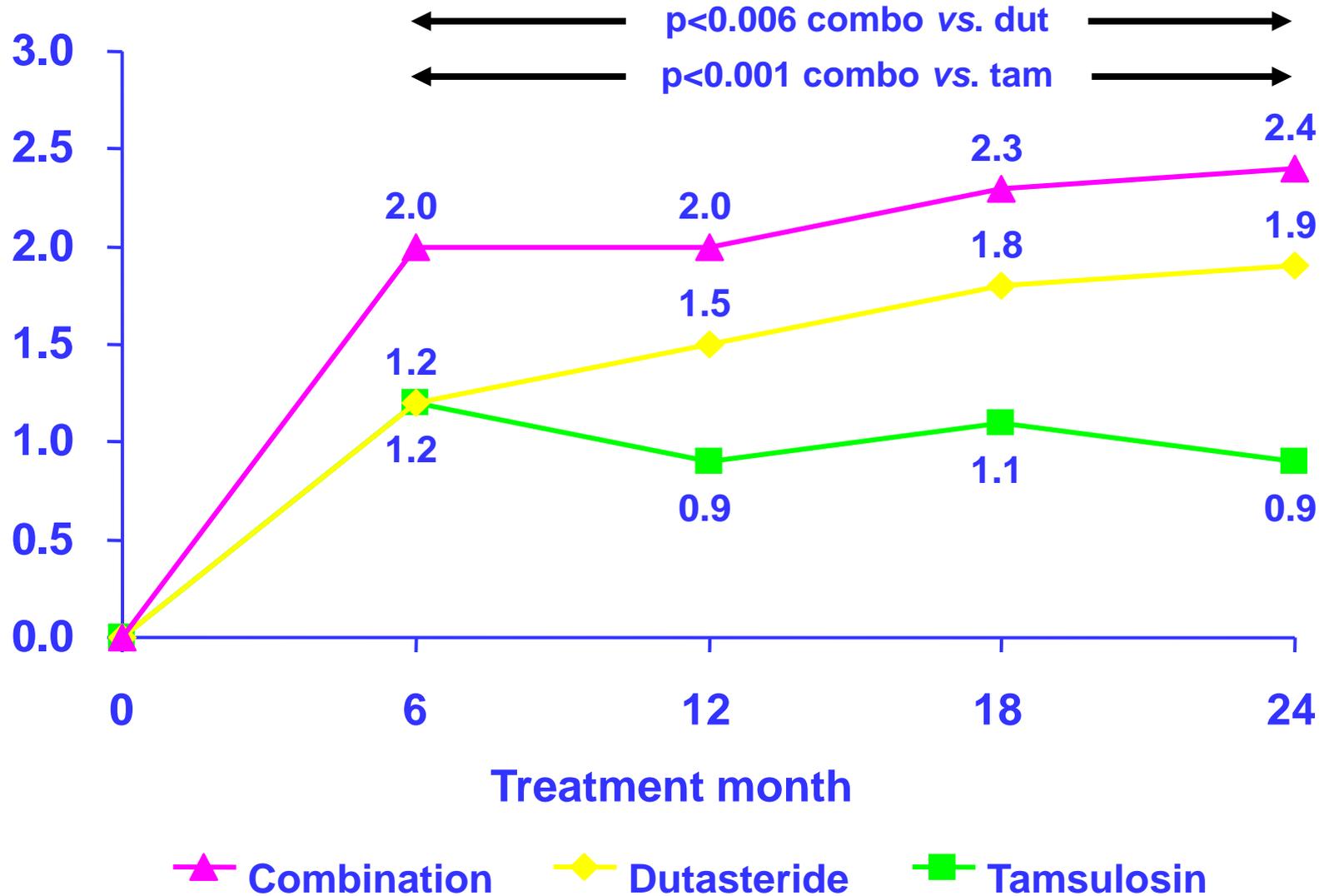
CombAT : Evolution symptomatique

Adjusted mean change in IPSS from baseline (ITT, LOCF)



CombAT : Evolution du débit

Adjusted mean change in Qmax (mL/sec) from baseline (ITT, LOCF)



CombAT : Effets secondaires

	Combination (n=1610)	Dutasteride (n=1623)	Tamsulosin (n=1611)
Erectile dysfunction	7.4%	6.0%	3.8%
Retrograde ejaculation	4.2%	0.6%	1.1%
Altered (decreased) libido	3.4%	2.8%	1.7%
Ejaculation failure	2.4%	0.5%	0.8%
Semen volume decreased	1.8%	0.3%	0.8%
Loss of libido	1.7%	1.3%	0.9%
Dizziness	1.6%	0.7%	1.7%
Breast enlargement	1.4%	1.8%	0.8%
Nipple pain	1.2%	0.6%	0.3%
Breast tenderness	1.0%	1.0%	0.3%

Traitements combinés

- ✓ Alpha-bloqueurs et 5 ARI
- ✓ Alpha-bloqueurs et anticholinergiques

Alpha-bloqueurs et anticholinergiques

Etude randomisée prospective
Placebo vs tolderodine vs tamsulosine
vs toldérodine + tamsulosine

879 patients with HBP and vessie hyperactive
(pollakiurie > 8/24h + urgences >3 avec ou sans incontinence,
modérée à sévère (IPSS >12))

Alpha-bloqueurs et anticholinergiques

TER+TAM > PBO symptômes

pas de modification Q max et PVR

AUR: 0.4% TER+TAM 0.5% TER et 0% PBO and TAM

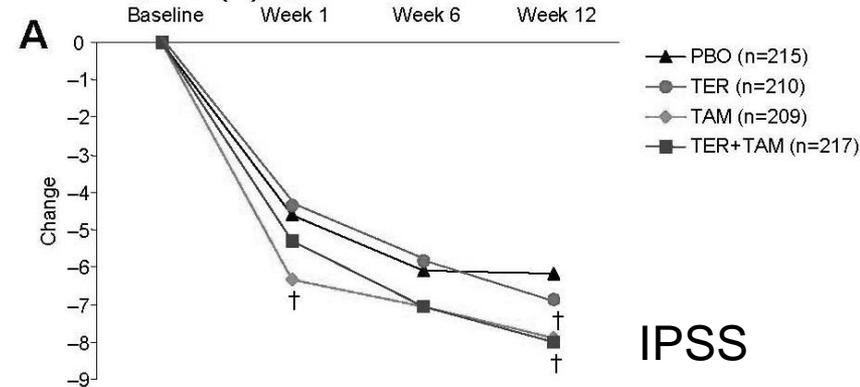


Table. Changes in IPSS Item Scores^a

Item	PBO (n=215)	TER (n=210)	TAM (n=209)	TER+TAM (n=217)
Straining	-0.64	-0.51	-0.83	-0.62
Sensation of incomplete emptying	-0.94	-1.05	-1.21 [†]	-1.14
Frequency	-1.10	-1.34	-1.31	-1.60 [‡]
Intermittency	-0.81	-0.95	-1.15 [‡]	-0.99
Urgency	-1.12	-1.27	-1.22	-1.56 [‡]
Weak stream	-0.81	-0.88	-1.25 [‡]	-1.00
Nocturia	-0.72	-0.85	-0.91	-1.09 [‡]

^aValues are adjusted means (ie, least squares means).

[†] $P < 0.05$ vs PBO.

[‡] $P < 0.01$ vs PBO.