

Prévalence de l'incontinence urinaire d'effort chez la sportive de haut niveau



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INTRODUCTION



Incontinence urinaire : Perte d'urine involontaire

Incontinence urinaire d'effort : Perte d'urine involontaire à l'effort (rire, toux, éternuement, sport et autres activités physique), non précédée de la sensation de besoin

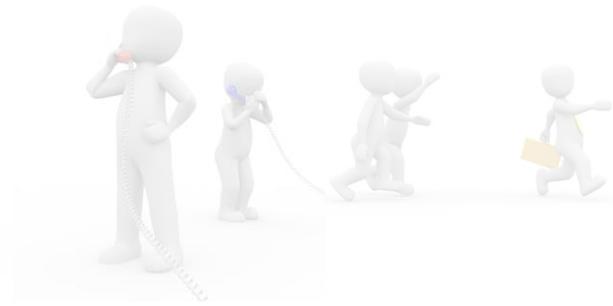
Incontinence urinaire par hyperactivité de vessie : perte involontaire d'urine, précédée par un besoin d'emblée urgent et non inhibé (besoin impérieux). Ces épisodes de fuite peuvent survenir au repos, la nuit, sans notion d'effort

Incontinence urinaire mixte : association des deux types précédents d'incontinence





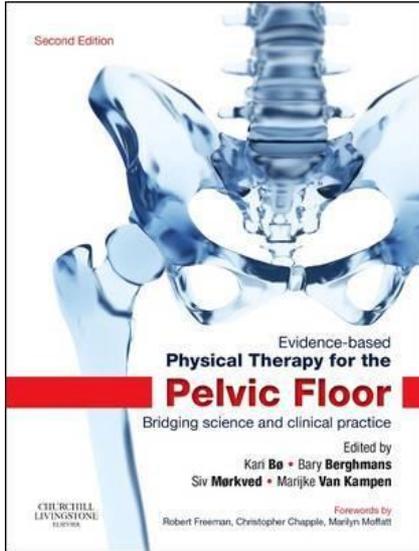
INTRODUCTION



Âge
Ménopause
Atteinte d'une maladie chronique
Homme blanc
Obésité
Nombre et type d'accouchement
Poids du nouveau né
Chirurgie gynécologique
Constipation intestinale
Consommation de drogue, tabac, caféine
Exercice...



INTRODUCTION

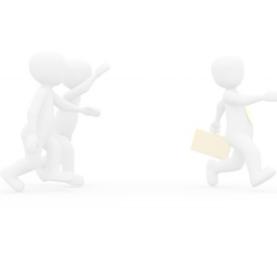


Kari Bø :

- ❑ Les muscles du plancher pelvien des sportives sont **compétents** mais l'**impact** élevé l'activité physique réalisée **augmente la pression intra-abdominale** les prédisposant à l'incontinence urinaire
- ❑ Les muscles du plancher pelvien des sportives sont **surchargés, étirés et faibles** à cause de l'**augmentation des pressions intra-abdominales** les prédisposant à l'incontinence urinaire

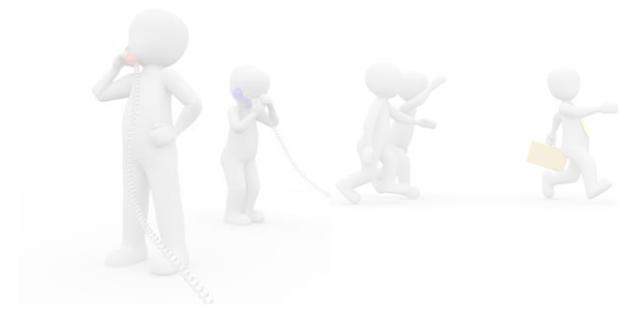


INTRODUCTION



IUE

IU, HAV, IUM, quantité, fréquence, dysurie, incontinence fécale, constipation, douleur périnéale, troubles sexuels, fonction du sport, fonction de l'impact du sport, fonction du volume d'entraînement, impact bio-psycho-social, mesures préventives et curatives

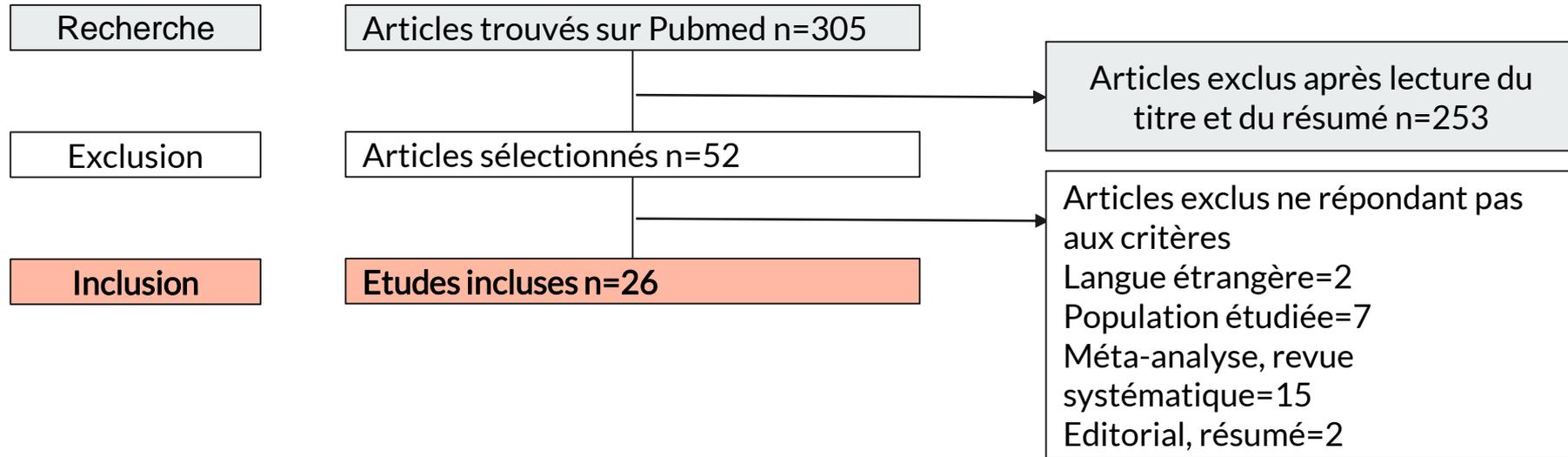


Pub Med

“urinary incontinence AND sport”



MÉTHODE





RÉSULTATS

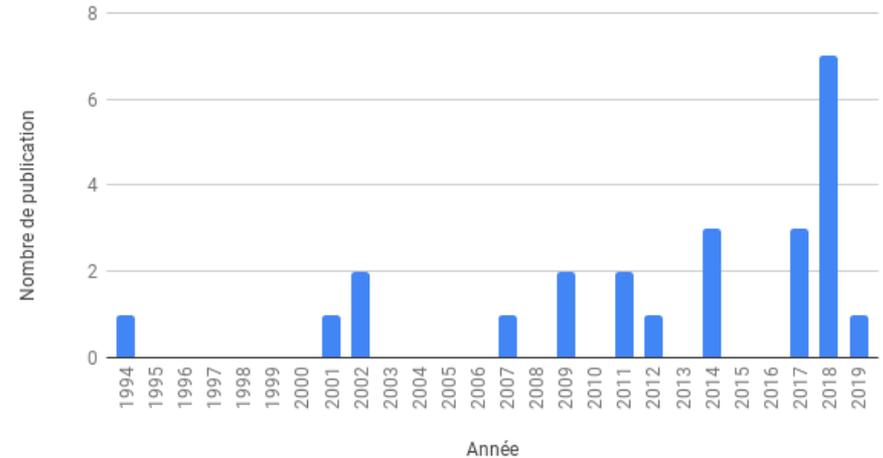


26 études transversales dont **6** avec groupe contrôle

23.6 ans âge moyen des sportives de haut niveau

5675 sportives de haut niveau et **2073** non sportives de haut niveau

Nombre de publication par an depuis 1994





ANALYSE



IUE 6.14% vs. 2.04% OR=3.49(1) à **80%** (2) selon les études

IU 14.3% (3) à **80%** (2) selon les études

HAV 3.8% (4) à **22.85%** (5) selon les études

IUM 0.8% (3) à **34.78%** (6) selon les études



- (1) Hagovska M, Svihra J, Bukova A, Horbacz A, Svihrova V. The impact of physical activity measured by the International Physical Activity questionnaire on the prevalence of stress urinary incontinence in young women, European Journal of Obstetrics and Gynecology (2018), <https://doi.org/10.1016/j.ejogrb.2018.07.011>
- (2) Eliasson K, Larsson T, & Mattsson E. Prevalence of stress incontinence in nulliparous elite trampolinists. Scand J Med Sci Sports, 2002, 12(2); p. 106–110
- (3) Hagovska M, Ján Š, Buková A, Horbacz A, Dračková D, Švihrová V, et al. Correction: Prevalence of Urinary Incontinence in Females Performing High-Impact Exercises. Int J Sports Med. mars 2017;38(3):e1
- (4) Carvalhais A, Natal Jorge R, Bo K. Performing high-level sport is strongly associated with urinary incontinence in elite athletes: a comparative study of 372 elite female athletes and 372 controls. Br J Sports Med. 22 juin 2017
- (5) Schettino MT, Mainini G, Ercolano S, Vascone C, Scalzone G, D'Assisi D, et al. Risk of pelvic floor dysfunctions in young athletes. Clin Exp Obstet Gynecol. 2014;41(6):671-6.
- (6) Amanda Maria Brito Cardoso, Cláudia Regina Oliveira De Paiva Lima & Caroline Wanderley Souto Ferreira (2018): Prevalence of urinary incontinence in high-impact sports athletes and their association with knowledge, attitude and practice about this dysfunction, European Journal of Sport Science, DOI: 10.1080/17461391.2018.1496146



ANALYSE



QUESTIONNAIRE SUBJECTIF

96.8% quelques gouttes (1)

90% quelques gouttes (2)

51.9% quelques gouttes (3)

44.0% quelques gouttes (4)

36.4% petites quantités (5)

24.8% petite quantité (6)

20% petite quantité (6)

11.4% grande quantité (6)

93.7% incontinence modérée (7)

- (1) Amanda Maria Brito Cardoso, Cláudia Regina Oliveira De Paiva Lima & Caroline Wanderley Souto Ferreira (2018): Prevalence of urinary incontinence in high-impact sports athletes and their association with knowledge, attitude and practice about this dysfunction, *European Journal of Sport Science*, DOI: 10.1080/17461391.2018.1496146
- (2) Carvalhais A, Natal Jorge R, Bø K. Performing high-level sport is strongly associated with urinary incontinence in elite athletes: a comparative study of 372 elite female athletes and 372 controls. *Br J Sports Med*. 22 juin 2017

(3) Jácome C, Oliveira D, Marques A, Sá-Couto P. Prevalence and impact of urinary incontinence among female athletes. *Int J Gynaecol Obstet Off Organ Int Fed Gynaecol Obstet*. juill 2011;114(1):60-

(4) BØ, K., and J. S. BORGÉN. Prevalence of stress and urge urinary incontinence in elite athletes and controls. *Med. Sci. Sports Exerc.*, Vol. 33, No. 11, 2001, pp. 1797-1802

(5) Kari Bø, Solfrid Bratland-Sanda, Jorunn Sundgot-Borgen. Urinary incontinence among group fitness instructors including yoga and pilates teachers. *Neurourology and urodynamics*. 30:370-373 (2011)

(6) K. Eliasson, T. Larsson, E. Mattsson. Prevalence of stress incontinence in nulliparous elite trampolinists. *Scand J Med Sci Sports* 2002; 12: 106-110

(7) Da Roza T, Brandão S, Mascarenhas T, Jorge RN, Duarte JA. Volume of training and the ranking level are associated with the leakage of urine in young female trampolinists. *Clin J Sport Med Off J Can Acad Sport Med*. mai 2015;25(3):270-5



ANALYSE



Une fois	5%	22.22%			
Rarement	30%	22.22%	61.4%	44%	
Parfois	55%	33.33%	25%	46,5%	
Fréquent	20%	22.22%		9.8%	
	(1)	(2)	(3)	(4)	
1/mois	17.3%			74.19%	50.8%
1/semaine	80,8%	81%	62,7%		
2-3/semaine		12.12%			
1/jour	1,9%	6.4%			
Tout le temps			2.7%		
	(5)	(6)	(7)	(8)	(9)

(1) Nygaard IE, Thompson FL, Svengalis SL, Albright JP. Urinary incontinence in elite nulliparous athletes. *Obstet Gynecol*. août 1994;84(2):183-7

(2) Santos ES, Caetano AS, Tavares MCGCF, Lopes MHBM. Urinary incontinence among physical education students. *Rev Esc Enferm USP* 2009; 43(2):306-11

(3) Jácome C, Oliveira D, Marques A, Sâ-Couto P. Prevalence and impact of urinary incontinence among female athletes. *Int J Gynaecol Obstet Off Organ Int Fed Gynaecol Obstet*. juill 2011;114(1):60-

(4) Thyssen HH, Clevin L, Olesen S, Lose G. Urinary incontinence in elite female athletes and dancers. *Int Urogynecol J Pelvic Floor Dysfunct*. 2002;13(1):15-7

(5) Vitton V, Baumstarck-Barrau K, Brardjanian S, Caballe I, Bouvier M, Grimaud J-C. Impact of high-level sport practice on anal incontinence in a healthy young female population. *J Womens Health* 2002. mai 2011;20(5):757-63

(6) Kari Bø, Solfrid Bratland-Sanda, Jorunn Sundgot-Borgen. Urinary incontinence among group fitness instructors including yoga and pilates teachers. *Neurourology and urodynamics*. 30:370-373 (2011)

(7) Carvalhais A, Natal Jorge R, Bø K. Performing high-level sport is strongly associated with urinary incontinence in elite athletes: a comparative study of 372 elite female athletes and 372 controls. *Br J Sports Med*. 22 juin 2017

(8) Schettino MT, Mainini G, Ercolano S, Vascone C, Scalzone G, D'Assisi D, et al. Risk of pelvic floor dysfunctions in young athletes. *Clin Exp Obstet Gynecol*. 2014;41(6):671-6

(9) Amanda Maria Brito Cardoso, Cláudia Regina Oliveira De Paiva Lima & Caroline Wanderley Souto Ferreira (2018): Prevalence of urinary incontinence in high-impact sports athletes and their association with knowledge, attitude and practice about this dysfunction, *European Journal of Sport Science*, DOI: 10.1080/17461391.2018.1496146



ANALYSE



DYSURIE 23%⁽¹⁾ à 55.24%⁽²⁾ en fonction des études

INCONTINENCE FÉCALE

14.8% vs. 4.9% OR=2.99⁽³⁾ dont 80% gaz

CONSTIPATION



CONSTIPATION

36% vs. 29.9% non sign. (3)

(1) Poświata A, Socha T, Opara J. Prevalence of stress urinary incontinence in elite female endurance athletes. J Hum Kinet. 9 déc 2014;44:91-6

(2) Schettino MT, Mainini G, Ercolano S, Vascone C, Scalzzone G, D'Assisi D, et al. Risk of pelvic floor dysfunctions in young athletes. Clin Exp Obstet Gynecol. 2014;41(6):671-6

(3) Vitton V, Baumstarck-Barrau K, Brardjianian S, Caballe I, Bouvier M, Grimaud J-C. Impact of high-level sport practice on anal incontinence in a healthy young female population. J Womens Health 2002. mai 2011;20(5):757-63



ANALYSE

DOULEUR 7%⁽¹⁾ à 52.38%⁽²⁾ en fonction des études

DYSPAREUNIES

20.1% vs. 8.4% p=0.002⁽³⁾; OR=2.99⁽⁴⁾ à 27.28%⁽⁵⁾

FONCTION SEXUELLE

44%⁽⁵⁾ : 94% orgasme ou lubrification / 66% désir / 58% excitation / 34% satisfaction ; non sign.⁽⁶⁾



(1) Nygaard IE, Thompson FL, Svengalis SL, Albright JP. Urinary incontinence in elite nulliparous athletes. *Obstet Gynecol.* août 1994;84(2):183-7

(2) Schettino MT, Mainini G, Ercolano S, Vascone C, Scalzone G, D'Assisi D, et al. Risk of pelvic floor dysfunctions in young athletes. *Clin Exp Obstet Gynecol.* 2014;41(6):671-6

(3) Vitton V, Baumstarck-Barrau K, Brardjanian S, Caballe I, Bouvier M, Grimaud J-C. Impact of high-level sport practice on anal incontinence in a healthy young female population. *J Womens Health* 2002. mai 2011;20(5):757-63

(4) Amanda Maria Brito Cardoso, Cláudia Regina Oliveira De Paiva Lima & Caroline Wanderley Souto Ferreira (2018): Prevalence of urinary incontinence in high-impact sports athletes and their association with knowledge, attitude and practice about this dysfunction, *European Journal of Sport Science*, DOI: 10.1080/17461391.2018.1496146

(5) dos Santos, K.M., Huyer da Roza, T., da Silva, L.L., Wolpe, R.E., da Silva Honório, Gesilani.Jú., Tonon da Luz, S.C., Female sexual function and urinary incontinence in nulliparous athletes: An exploratory study, *Physical Therapy in Sports* (2018), doi: 10.1016/j.ptsp.2018.06.004.

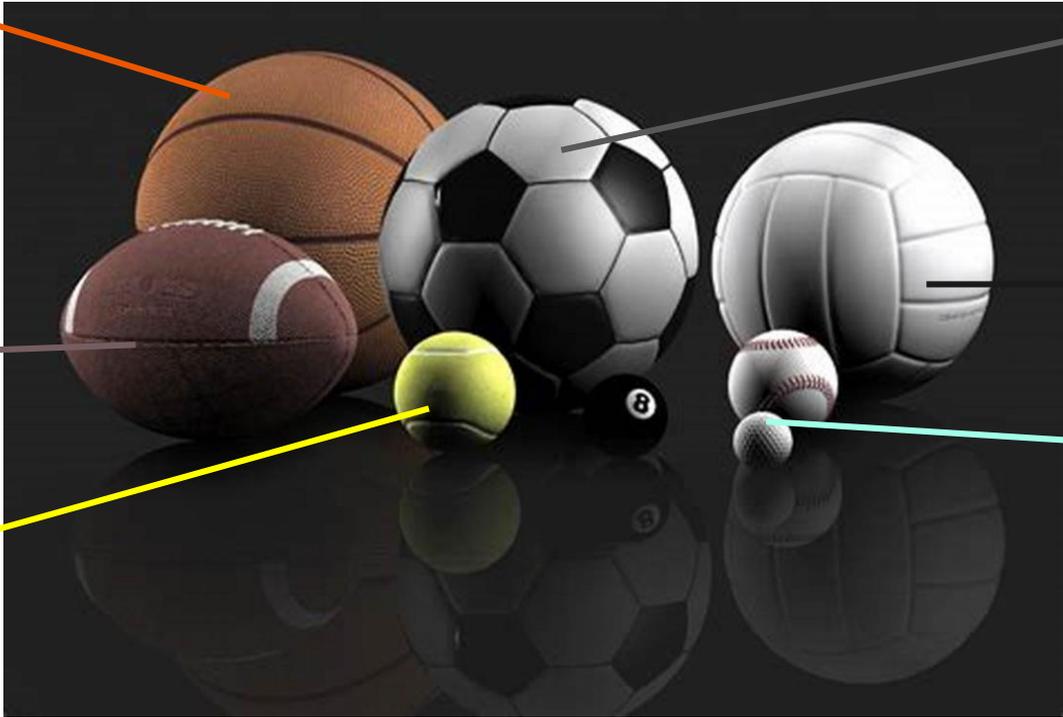
(6) Alanee S, Heiner J, Liu N, Monga M. Horseback riding: impact on sexual dysfunction and lower urinary tract symptoms in men and women. *Urology* 2009;73:109-14.

ANALYSE

24.1% (1)
16.6% (2)
14.7% OR=1.33 (3)
66% (4)
21% (5)
67% (7)

12.2% (1)

19% (1)
0% (2 ; 3)
50% (4)

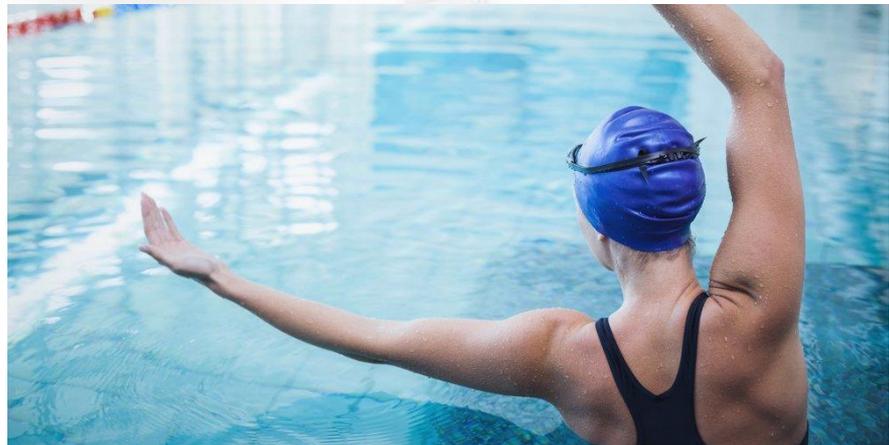


16.2% (1)
0% (2)
5% OR=0.37 (3)
67% (7)

4.2% (1)
0% (2)
19.6% OR =2.16 (3)
9% (4)
30% (5)
63% (7)

0% (4)

HANDBALL
23.3% (1)
20% (2)
16.6% OR=1.57 (3)
21% (5)
73.3% (7)



0% (1) 10% (4)
50% (2) 7.1% (6)

18.2% (1) natation synchronisé
16.1% (1) waterpolo
25% (2) aquagym
19.5% (6) sport aquatique



ANALYSE



11.1% (2)
30% (4)
19.5% (6)



18.2% (1)
23.8% OR=2.58 (3)
29% (4)
25% (5)
87.5% (7)



0% (2)
12.1% (6)



ANALYSE



6.9% OR=0.48 (3) ; 30% saut jambe écart (4) ; 43% (5)



0% step (1); 15.6% fitness OR=1.44 (3); 32% aérobic (5) ; 14% musculation (6) ; 5.6% Pilates (6)

ANALYSE



82.4% (1)
100% (2)
80% (8)

22.2% (1)
3.33% (2)
67% (4)
56% (5)



0% (1)
8.33% (2)



ANALYSE



NOMBRE D'HEURE/SEMAINE

DÉPEND DES ÉTUDES : **significatif** (1, 2, 3, 4, 5, 6) // **non significatif** (7, 8, 9)

NOMBRE D'ANNÉE DE PRATIQUE

DÉPEND DES ÉTUDES : **significatif** (3, 4, 10, 11) // **non significatif** (6, 9)

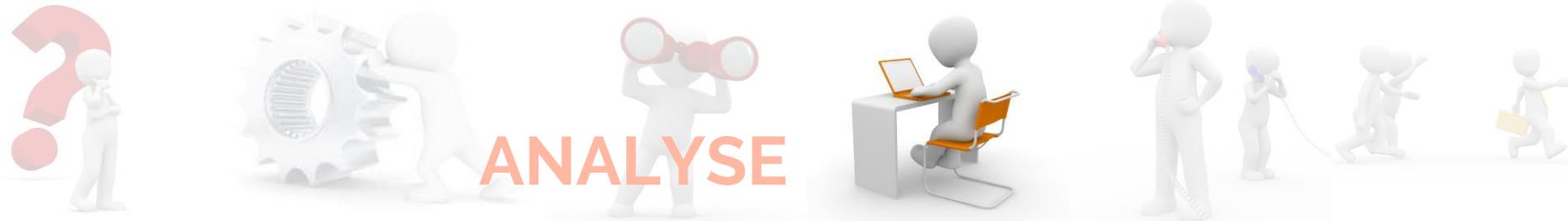
NOMBRE D'ENTRAÎNEMENT/SEMAINE

NON SIGNIFICATIF (5, 11)

HAUT/FAIBLE IMPACT

SIGNIFICATIF (1, 2, 13, 14)

WEEK	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	
WEEK 1	PUMP AND BURN Les Mills Pump +30 mins.	THE PRENARIO T25 Gamma +20 mins. CORE 1 22 Minute Hard Corps +12 mins.	SWEAT INTERVALS Intensity Max 30 +30 mins.	HAMMER POWER Hammer and Chisel +40 mins.	PURE CARDS Intensity +42 mins.	PUMP AND BURN Les Mills Pump +40 mins.		DAY OFF
WEEK 2	CARDIO CHALLENGE Intensity Max 30 +30 mins. ABS 10 CLASS Turbo Fire Deluxe +10 mins.	THE CHALLENGE P90X3 +30 mins.	CARDIO FIRE EXTREME 21 Day Fix Extreme +30 mins.	TOTAL BODY HAMMER Hammer and Chisel +44 mins.	FRIDAY FIGHT: ROUND 1 Intensity Max 30 +30 mins.	STRENGTH Intensity Allium +47 mins.		DAY OFF
WEEK 3	TABATA STRENGTH Intensity Max 30 +30 mins. AB ATTACK:10 Intensity Max 30 +10 mins.	ECCENTRIC UPPER P90X3 +30 mins.	SPEED LB T25 Gamma +30 mins. AB RIPPER X2 P90X3 Elite +15 mins.	DIRTY 30 EXTREME 21 Day Fix Extreme +40 mins.	PLYOMETRIC CARDIO CIRCUIT Intensity +45 mins.	PUMP REVOLUTION Les Mills Pump +45 mins.		DAY OFF
WEEK 4	TABATA POWER Intensity Max 30 +30 mins.	RIPT UP T25 Gamma +20 mins. 10 MIN AB CHISEL Hammer and Chisel +11 mins.	HIIT 1 - POWER Les Mills Combat +32 mins.	HAMMER PLYOMETRICS Hammer and Chisel +37 mins. 10 MIN AB HAMMER Hammer and Chisel +13 mins.	CARDIO POWER & RESISTANCE Intensity +44 mins.	SPEED & AGILITY Intensity Allium +46 mins.		DAY OFF



DIAPO de 14 à 18

- (1) Carvalhais A, Natal Jorge R, Bø K. Performing high-level sport is strongly associated with urinary incontinence in elite athletes: a comparative study of 372 elite female athletes and 372 controls. *Br J Sports Med.* 22 juin 2017
- (2) Santos ES, Caetano AS, Tavares MCGCF, Lopes MHBM. Urinary incontinence among physical education students. *Rev Esc Enferm USP* 2009; 43(2):306-11
- (3) Hagovska M, Švihra J, Buková A, Dračková D, Švihrová V. Prevalence and risk of sport types to stress urinary incontinence in sportswomen: A cross-sectional study. *Neurourology and Urodynamics.* 2018;1-8.
- (4) Nygaard IE, Thompson FL, Svengalis SL, Albright JP. Urinary incontinence in elite nulliparous athletes. *Obstet Gynecol.* août 1994;84(2):183-7
- (5) Thyssen HH, Clewin L, Olesen S, Lose G. Urinary incontinence in elite female athletes and dancers. *Int Urogynecol J Pelvic Floor Dysfunct.* 2002;13(1):15-7
- (6) Fozzatti C, Riccetto C, Herrmann V, Brancalion MF, Raimondi M, Nascif CH, et al. Prevalence study of stress urinary incontinence in women who perform high-impact exercises. *Int Urogynecology J.* déc 2012;23(12):1687-91
- (7) Amanda Maria Brito Cardoso, Cláudia Regina Oliveira De Paiva Lima & Caroline Wanderley Souto Ferreira (2018): Prevalence of urinary incontinence in high-impact sports athletes and their association with knowledge, attitude and practice about this dysfunction, *European Journal of Sport Science*, DOI: 10.1080/17461391.2018.1496146
- (8) K. Eliasson, T. Larsson, E. Mattsson. Prevalence of stress incontinence in nulliparous elite trampolinists. *Scand J Med Sci Sports* 2002; 12: 106-110

DIAPO 20

- (1) dos Santos, K.M., Huyer da Roza, T., da Silva, L.L., Wolpe, R.E., da Silva Honório, Gesilani.Jú., Tonon da Luz, S.C., Female sexual function and urinary incontinence in nulliparous athletes: An exploratory study, *Physical Therapy in Sports* (2018), doi: 10.1016/j.ptsp.2018.06.004.
- (2) Alves JO, Luz STD, Brandão S, Da Luz CM, Jorge RN, Da Roza T. Urinary Incontinence in Physically Active Young Women: Prevalence and Related Factors. *Int J Sports Med.* nov 2017;38(12):937-41
- (3) Carvalhais A, Natal Jorge R, Bø K. Performing high-level sport is strongly associated with urinary incontinence in elite athletes: a comparative study of 372 elite female athletes and 372 controls. *Br J Sports Med.* 22 juin 2017
- (4) K. Eliasson, T. Larsson, E. Mattsson. Prevalence of stress incontinence in nulliparous elite trampolinists. *Scand J Med Sci Sports* 2002; 12: 106-110
- (5) Hagovska M, Ján Š, Buková A, Horbacz A, Dračková D, Švihrová V, et al. Correction: Prevalence of Urinary Incontinence in Females Performing High-Impact Exercises. *Int J Sports Med.* mars 2017;38(3):e1
- (6) Logan BL, Foster-Johnson L, Zotos E. Urinary incontinence among adolescent female athletes. *J Pediatr Urol.* 24 févr 2018
- (7) Schettino MT, Mainini G, Ercolano S, Vascone C, Scalzone G, D'Assisi D, et al. Risk of pelvic floor dysfunctions in young athletes. *Clin Exp Obstet Gynecol.* 2014;41(6):671-6
- (8) Fozzatti C, Riccetto C, Herrmann V, Brancalion MF, Raimondi M, Nascif CH, et al. Prevalence study of stress urinary incontinence in women who perform high-impact exercises. *Int Urogynecology J.* déc 2012;23(12):1687-91
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- (10) Alane S, Heiner J, Liu N, Monga M. Horseback riding: impact on sexual dysfunction and lower urinary tract symptoms in men and women. *Urology* 2009;73:109-14.
- (11) Kari Bø, Solfrid Bratland-Sanda, Jorunn Sundgot-Borgen. Urinary incontinence among group fitness instructors including yoga and pilates teachers. *Neurourology and urodynamics.* 30:370-373 (2011)
- (12) Nygaard IE, Thompson FL, Svengalis SL, Albright JP. Urinary incontinence in elite nulliparous athletes. *Obstet Gynecol.* août 1994;84(2):183-7
- (13) Hagovska M, Švihra J, Buková A, Horbacz A, Švihrová V. The impact of physical activity measured by the International Physical Activity questionnaire on the prevalence of stress urinary incontinence in young women. *European Journal of Obstetrics and Gynecology* (2018), <https://doi.org/10.1016/j.ejogrb.2018.07.011>
- (14) Vitton V, Baumstarck-Barrau K, Brardjanian S, Caballe I, Bouvier M, Grimaud J-C. Impact of high-level sport practice on anal incontinence in a healthy young female population. *J Womens Health* 2002. mai 2011;20(5):757-63



ANALYSE



ENTRAÎNEMENT

14% ⁽¹⁾ à 100% ⁽²⁾ selon les études

COMPÉTITION

0% ⁽¹⁾ à 51.2% ⁽³⁾ selon les études

EN FIN D'ENTRAÎNEMENT

60% ⁽²⁾ à 84.1% ⁽⁴⁾



(1) Nygaard IE, Thompson FL, Svengalis SL, Albright JP. Urinary incontinence in elite nulliparous athletes. *Obstet Gynecol.* août 1994;84(2):183-7

(2) K. Eliasson, T. Larsson, E. Mattsson. Prevalence of stress incontinence in nulliparous elite trampolinists. *Scand J Med Sci Sports* 2002; 12: 106-110

(3) Thyssen HH, Clevin L, Olesen S, Lose G. Urinary incontinence in elite female athletes and dancers. *Int Urogynecol J Pelvic Floor Dysfunct.* 2002;13(1):15-7

(4) Carvalhais A, Natal Jorge R, Bø K. Performing high-level sport is strongly associated with urinary incontinence in elite athletes: a comparative study of 372 elite female athletes and 372 controls. *Br J Sports Med.* 22 juin 2017



ANALYSE



PROBLÈME SOCIAL ET HYGIÉNIQUE

15%⁽¹⁾ à 51.4%⁽²⁾ en fonction des études

QUALITÉ DE VIE

DÉPEND DES ÉTUDES : significatif (3, 4) // non significatif (5,6)

SPORT ET PERFORMANCE SPORTIVES

16%⁽⁷⁾ à 39.1%⁽⁸⁾ en fonction des études



- (1) BØ, K., and J. S. BORGÉN. Prevalence of stress and urge urinary incontinence in elite athletes and controls. *Med. Sci. Sports Exerc.*, Vol. 33, No. 11, 2001, pp. 1797–1802
- (2) K. Eliasson, T. Larsson, E. Mattsson. Prevalence of stress incontinence in nulliparous elite trampolinists. *Scand J Med Sci Sports* 2002; 12: 106–110
- (3) Hagovska M, Svihra J, Bukova A, Horbacz A, Svihrova V, The impact of physical activity measured by the International Physical Activity questionnaire on the prevalence of stress urinary incontinence in young women, *European Journal of Obstetrics and Gynecology* (2018). <https://doi.org/10.1016/j.ejogrb.2018.07.011>
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- (5) Kari Bø, Solfrid Bratland-Sanda, Jorunn Sundgot-Borgen. Urinary incontinence among group fitness instructors including yoga and pilates teachers. *Neurourology and urodynamics*. 30:370–373 (2011)
- (6) Alves JO, Luz STD, Brandão S, Da Luz CM, Jorge RN, Da Roza T. Urinary Incontinence in Physically Active Young Women: Prevalence and Related Factors. *Int J Sports Med*. nov 2017;38(12):937-41
- (7) Carls C. The prevalence of stress urinary incontinence in high school and college-age female athletes in the midwest: implications for education and prevention. *Urol Nurs*. févr 2007;27(1):21-4, 39
- (8) Carvalhais A, Natal Jorge R, Bø K. Performing high-level sport is strongly associated with urinary incontinence in elite athletes: a comparative study of 372 elite female athletes and 372 controls. *Br J Sports Med*. 22 juin 2017



ANALYSE

PROTECTION

12%⁽¹⁾ à 34.3%⁽²⁾ en fonction des études

sport 40%⁽³⁾ à 65.7%⁽²⁾ en fonction des études

VIDANGE VÉSICALE PRÉVENTIVE

37%⁽⁴⁾ à 100%⁽⁵⁾ en fonction des études

RESTRICTION HYDRIQUE

6.6%⁽⁶⁾ à 15%⁽⁷⁾ en fonction des études

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- (1) Amanda Maria Brito Cardoso, Cláudia Regina Oliveira De Paiva Lima & Caroline Wanderley Souto Ferreira (2018): Prevalence of urinary incontinence in high-impact sports athletes and their association with knowledge, attitude and practice about this dysfunction, *European Journal of Sport Science*, DOI: 10.1080/17461391.2018.1496146
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ANALYSE



EN A PARLÉ

8%⁽¹⁾ à 39.6%⁽²⁾ en fonction des études

EN A PARLÉ AVEC UN PROF. DE SANTÉ

3.3%⁽³⁾ à 4.5%⁽²⁾ en fonction des études

RÉÉDUCATION

91% ne connaissent pas les exercices de Kegel (1)

4.6% ont réalisé des exercices de renforcement du plancher pelvien (3)

0% ont des connaissances pratiques et 0% ont vu un physiothérapeute (4)



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- (2) Jácome C, Oliveira D, Marques A, Sâ-Couto P. Prevalence and impact of urinary incontinence among female athletes. Int J Gynaecol Obstet Off Organ Int Fed Gynaecol Obstet. juill 2011;114(1):60
- (3) Thyssen HH, Clevin L, Olesen S, Lose G. Urinary incontinence in elite female athletes and dancers. Int Urogynecol J Pelvic Floor Dysfunct. 2002;13(1):15-7
- (4) Amanda Maria Brito Cardoso, Cláudia Regina Oliveira De Paiva Lima & Caroline Wanderley Souto Ferreira (2018): Prevalence of urinary incontinence in high-impact sports athletes and their association with knowledge, attitude and practice about this dysfunction, European Journal of Sport Science, DOI: 10.1080/17461391.2018.1496146



DISCUSSION



durée
quantité
prévalence
troubles
parler
impact
fréquence
qualité
sport associés



DIAPO DU LUNDI

scruter
enquêter
légitimité
interrogation
poser
questionnement
écouter
sonder
questionner
répondre
tâter
examiner
interrogatoire
inquiets
enquêter
regard
interviewer