

PATHOLOGIES NEUROLOGIQUES ET HYPERACTIVITÉ VÉSICALE QUELLES SPÉCIFICITÉS LA SCLÉROSE EN PLAQUES

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CABINET DE NEURO-UROLOGIE ET URODYNAMIQUE

CLINIQUE SAINT AUGUSTIN, BORDEAUX

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EPIDEMIOLOGIE

- SYMPTÔME MICTIONNEL LE PLUS FRÉQUENT: MÉDIANE 65 % (17 À 82%)
- PRÉCOCITÉ D'APPARITION
 - DÉLAI MÉDIAN DE 6 ANS
 - INAUGURAUX DANS 10 % DES CAS
- PEUT CONSTITUER LE POINT D'APPEL D'UNE POUSSÉE DE SEP

SYMPTOMATOLOGIE

NON SPECIFIQUE

- URGENTURIE: 38 À 99%, POLLAKIURIE: 26 À 82%, PERTES SUR URGENTURIE: 27 À 66%
- ASSOCIATION À DES TROUBLES DE LA VIDANGE CHEZ PLUS DE 50% DES PATIENTS
 - SE MÉFIER D'UN RÉSIDU POST MICTIONNEL
 - RÉSIDU NON PERÇU PAR 47% DES PATIENTS RÉTENTIONNISTES (VERSUS 83% RPM SI SYMPTOMATIQUE)
- FLUCTUATIONS CLINIQUES URINAIRES INDÉPENDANTES DU STATUT NEUROLOGIQUE
 - PLUS D'1/3 DES PATIENTS CHANGENT DE SYMPTÔMES CLINIQUES EN 4 ANS, INDÉPENDAMMENT DU STATUT NEUROLOGIQUE
- SYMPTOMATOLOGIE CLINIQUE PEU INFORMATIVE DU TABLEAU URODYNAMIQUE
 - ANOMALIE URODYNAMIQUE CHEZ ~50% DE PATIENTS ASYMPTOMATIQUES
 - HYPERACTIVITÉ PEUT TRADUIRE UNE HYPOACTIVITÉ DU DÉTRUSOR

Amarenco 1995, de Sèze, Mult Scler 2007 Phe, Nat Rev Urol 2016

TYPOLOGIE URODYNAMIQUE

PATIENTS AVEC SYMPTÔMES HAV

PATIENTS SANS SYMPTÔME HAV

- HYPERACTIVITÉ DU DÉTRUSOR CHEZ 65% (34 À 91%)
- 43 À 80% DE DVS ASSOCIÉE
- 5 À 36 % D'ACONTRACTILITÉ ASSOCIÉE
- 2 À 10% DE DÉFAUT DE COMPLIANCE

- PLUS DE 50% D'ANOMALIE URODYNAMIQUE
 - HYPERACTIVITÉ DU DÉTRUSOR
 - DYSSYNERGIE VESICOSPHINCTERIENNE 35%

- PRÉVALENCE DE L'HYPERACTIVITÉ DU DÉTRUSOR ET DE LA DVS CROISSANTE AVEC DURÉE D'ÉVOLUTION DE LA SEP, EDSS, SIGNES PYRAMIDAUX
- MAIS ATTENTION,
 - MAJORATION DE FACTEUR URODYNAMIQUES PRÉJUDICIABLES (PD MAX, COMPLIANCE) CHEZ PRÈS DE 40% STABLES SUR LE PLAN NEUROLOGIQUE

Amarenco 1995, Betts 1993, Cianco 2003, Giannantoni 1999De Ridder 1998, de Sèze, 2007

PREJUDICES

RETENTISSEMENT FONCTIONNEL

ALTERATION MODÉRÉE À IMPORTANTE DE LA QUALITE DE VIE CHEZ 70% DES PATIENTS SEP SYMPTOMATIQUES

Hemmet, Int J Med 2004

RETENTISSEMENT ORGANIQUE

- RÉPUTÉ MOINDRE QUE CHEZ PATIENTS MÉDULLAIRES ET DYSRAPHISMES
- MAIS, PAS SI BÉNIN
- COMPLICATION URO-NÉPHROLOGIQUE CHEZ PLUS D'1 PATIENT SUR 10 DANS LES 18 PREMIÈRES ANNÉES DE SEP
 - INFECTIONS URINAIRES HAUTES 9%
 - DILATATION HAUT APPAREIL 8%,
 - LITHIASES VESICALES OU RENALES 5%,
 - REFLUX VESICO URETERAL 5%,
 - INSUFFISANCE RENALE 2 À 3%
- HAUTES PRESSIONS DU DETRUSOR ET AMPLES CONTRACTIONS DESINHIBEES DU DETRUSOR = FACTEURS ÉTABLIS DE RISQUE URONEPHROLOGIQUE
- IMPORTANCE +++ DE LEURS DÉPISTAGE, SUIVI ET PRISE EN CHARGE RÉGULIÈREMENT ADAPTÉS

Betts 1993, Cianco 2003, Giannantoni 1999, De Ridder 1998, de Sèze, 2007

DEPISTAGE

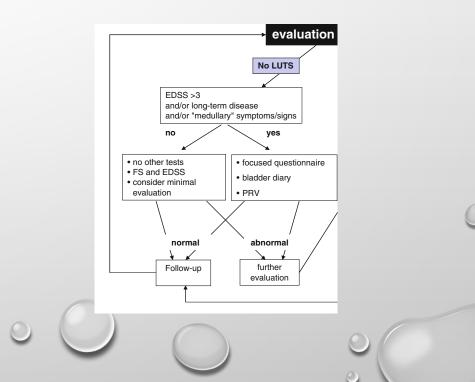
ARTICLE

Multiple Sclerosis 2007; 13: 915–928

The neurogenic bladder in multiple sclerosis: review of the literature and proposal of management guidelines

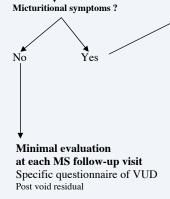
Marianne de Sèze^{*1}, Alain Ruffion², Pierre Denys³, Pierre-Alain Joseph¹ and Brigitte Perrouin-Verbe⁴ and the International Francophone Neuro-Urological expert study group (GENULF) Recommendations for the management of urinary disorders in multiple sclerosis: a consensus of the Italian Multiple Sclerosis Study Group

A. Ghezzi · R. Carone · G. Del Popolo · M. P. Amato · A. Bertolotto ·



ASYMPTOMATIC PATIENT

Minimal evaluation Specific questionnaire of VUD Post void residual



EXPLORATION INITIALE DES PATIENTS SYMPTOMATIQUES

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SYMPTOMATIC PATIENT

Neuro-Urologic physician

Baseline evaluation 3-days voiding chart Urinary Echography Urine bacteriology Urodynamic study Urinary creatinin clearance Quality of Life related to VUD

Analysis of risk factors

Table 4 Risk factors of upper urinary tract complications in MS

| | Definite risk factors | Probable risk factors |
|---------------------------|---|-----------------------------------|
| Level of scientific proof | 1. Established level of proof | 2. Assumption of proof |
| Nature of risk factor | - MS duration beyond 15 years | Detrusor-sphincter dyssynergia |
| | Indwelling urinary catheter Ample uninhibited contractions of the detrusor High detrusor pressure | Age over 50 years Male sex |

Recommendations for the management of urinary disorders in multiple sclerosis: a consensus of the Italian Multiple Sclerosis Study Group

A. Ghezzi · R. Carone · G. Del Popolo · M. P. Amato · A. Bertolotto ·

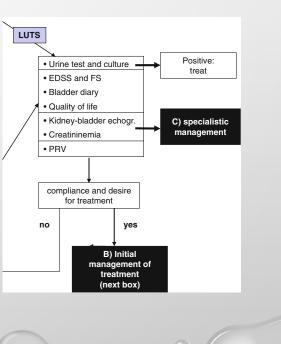
Management of neurogenic bladder in patients with multiple sclerosis

Véronique Phé^{1,2}, Emmanuel Chartier–Kastler¹ and Jalesh N. Panicker²

Phe, Nat Rev Urol 2016

The management pf patients with multiple sclerosis and LUT symptoms

| Assessi | ment |
|---|---|
| History General assessment, quality | Urinalysis/culture Urinary tract imaging, |
| of life, expectations from | measures of renal function Measuring post-void |
| treatment Bladder diary Physical examination | residual volume Urodynamics |



Canadian Urological Association guideline: Diagnosis, management, and surveillance of neurogenic lower urinary tract dysfunction —

Ashley Cox, MD⁴; Duane Hickling, MD⁵; Genviève Nadeau, MD⁵; Lynn Stothers, MD¹; Blavne Welk, MD^{3*}

Alex Kavanagh, MD1"; Richard Baverstock, MD2; Lysanne Campeau, MD3; Kevin Carlson, MD2;

SUIVI AU LONG COURS

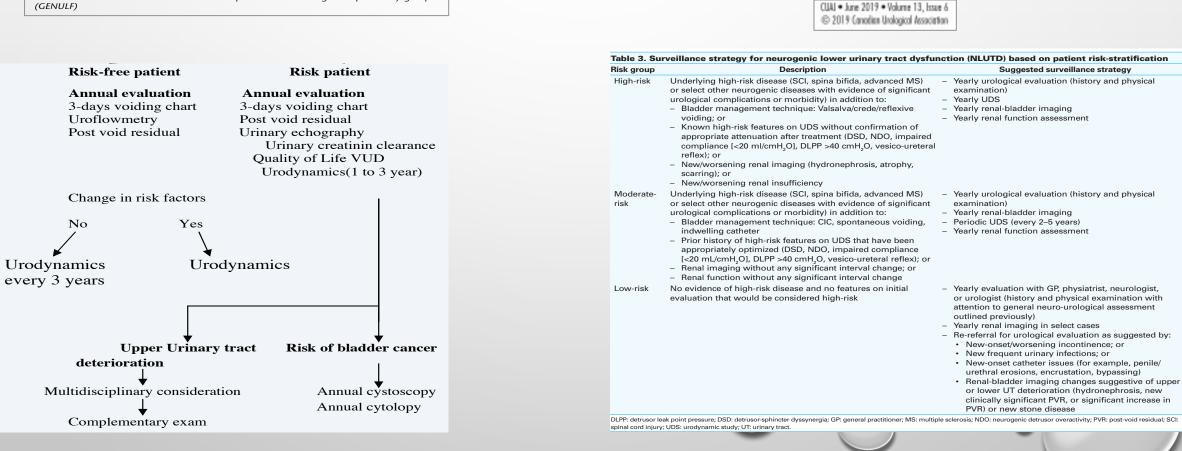
Full text

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DRAPEAUX ROUGES

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| | Definite risk factors | Probable risk factors | Risk group |
|---------------------------|---|-----------------------------------|--|
| Level of scientific proof | 1. Established level of proof | 2. Assumption of proof | Risk patient: at least one definite risk factor or more than two probable risk factors |
| Nature of risk factor | - MS duration beyond 15 years | Detrusor-sphincter dyssynergia | Risk-free patient: No definite risk facto and no more than two probable risk factors |
| | Indwelling urinary catheter Ample uninhibited contractions of the detrusor High detrusor pressure | Age over 50 years Male sex | |

The Management of Lower Urinary Tract Dysfunction in Multiple Sclerosis

Jure Tornic¹ • Jalesh N. Panicker¹

Current Neurology and Neuroscience Reports (2018) 18: 54

Table 1The presence ofred flags should initiatean early referral tourology services

Presence of hydronephrosis
Renal impairment
Recurrent urinary tract infections
Hematuria
Suspicion of concomitant urologic pathology (e.g., prostate enlargement), stress urinary incontinence
Loin and/or pelvic pain
Symptoms refractory to 1st-line treatment

Intérêt de l'approche multidisciplinaire



Neurourology and Urodynamics 36:706–709 (2017)

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Assessment of a Program to Encourage the Multidisciplinary Management of Urinary Disorders in Multiple Sclerosis

Evelyne Castel-Lacanal,^{1*} Xavier Gamé,² Michel Clanet,³ Xavier De Boissezon,¹ David Brassat,³ Pascal Rischmann,² and Philippe Marque¹

328 patients SEP Groupe 1: avant multidisciplinarité Groupe 2: suivi multidisciplinaire

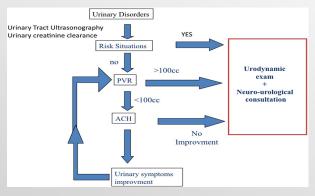


Fig. 1. Algorithm to manage urinary disorders in Multiple Sclerosis Urinary disorders: the physicians were aware of systematically asking their MS patients about any urinary symptoms. In the event of UD, they had to prescribe urinary creatinine clearance, and urinary tract ultrasonography with post-void residual urine volume determination. Risk situation: voiding symptoms (dysuria, chronic retention), medical history of febrile urinary tract infection, renal failure, failure of anticholinergic therapy, ultrasound abnormalities (ureteral dilatation, urinary lithiasis), post-void residual urine above 100ml. In the event of urinary improvement by anticholergies, the urinary tract ultrasonography and the urinary creatinine clearance have to be checked every year. PVR, post-void residual; ACH, anticholinergic.

| | Group 1 (N = 168) | Group 2 (N = 160) | Р |
|---------------------------------------|----------------------------------|-----------------------------------|---------------------------|
| Age | 51.6 ± 12.6 | 48 ± 11.8 | t-Student (P = 0.008) |
| Gender (M/W) | 56/112 | 49/111 | $\chi^2 (P = 0.06)$ |
| Duration of MS | $\textbf{15.8} \pm \textbf{9.6}$ | $\textbf{12.8} \pm \textbf{10.4}$ | t-student ($P = 0.007$) |
| Mean EDSS | 5.7 ± 2 | 5.1 ± 2 | t-student (P = 0.008) |
| Progression of MS | | | $\chi^2 (P = 0.18)$ |
| Relapsing-remitting | 64 (38%) | 76 (48%) | |
| Secondary progressive | 66 (39%) | 45 (28%) | |
| Progressive | 32 (19%) | 34 (21%) | |
| Undetermined | 6 (4%) | 5 (3%) | |
| Urinary symptoms | | | $\chi^2 (P = 0.095)$ |
| Asymptomatic | 3 (2%) | 4 (2%) | |
| Storage symptoms | 57 (34%) | 66 (41%) | |
| Voiding symptoms | 57 (34%) | | |
| Both storage and voiding symptoms | | | |
| Post-void residual urine above 100 ml | 77 (46%) | 50 (31%) | $\chi^2 (P = 0.007)$ |

TABLE II. Comparison of the Prevalence of Urinary Complications During the First Neuro-Urological Evaluation

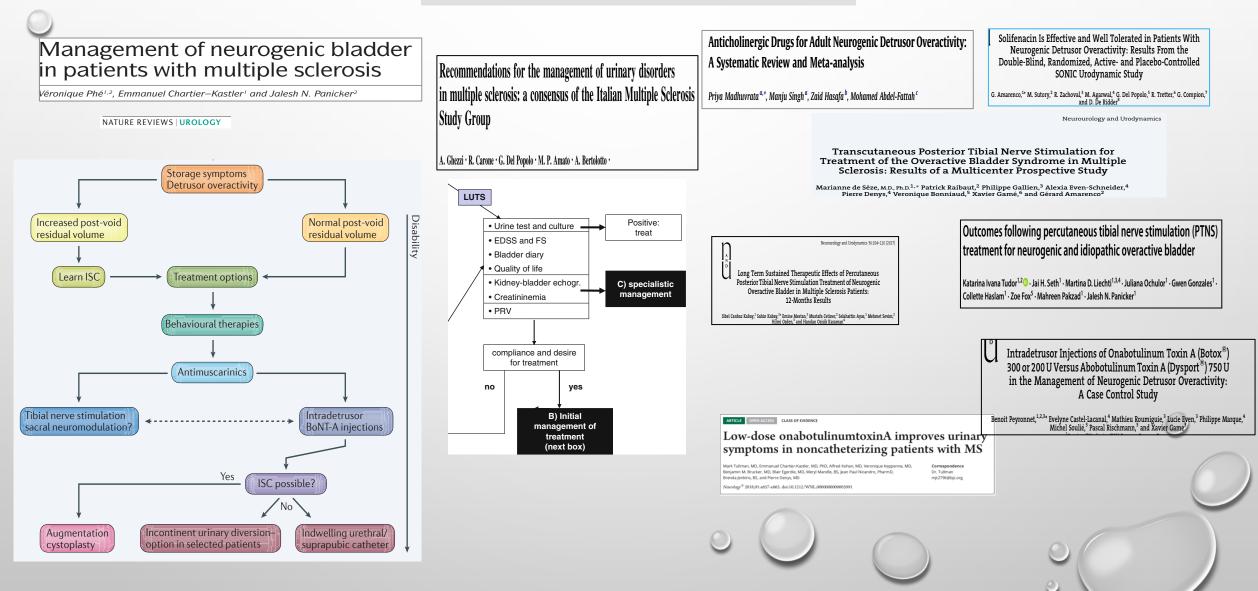
| | Group 1 (N = 168) | Group 2 (N = 160) | Р |
|-----------------------------------|----------------------|----------------------|----------------------|
| Urinary complications | 112 (67%) | 66 (41%) | χ^2 (P < 0.001) |
| Lower urinary tract complications | 66 (39%) | 45 (28%) | $\chi^2 (P = 0.002)$ |
| Lower urinary tract infection | 50 (30%) | 31 (19%) | |
| Bladder morphological damage | 24 (14%) | 24 (15%) | |
| Bladder cancer | 1 (0,05%) | 0 (0%) | |
| Upper urinary tract complications | 68 (40%) | 36 (23%) | $\chi^2 (P = 0.001)$ |
| Pyelonephritis/urinary sepsis | 43 (26%) | 16 (10%) | |
| Lithiasis | 12 (7%) | 7 (4%) | |
| Ureteral dilatations | 10 (6%) | 2 (1%) | |
| Vesico-ureteral reflux | 10 (6%) | 3 (2%) | |
| Renal failure | 34 (20%) | 16 (10%) | |

Multidisciplinarité: Patients suivis plus précocement, moins de complications uronéphrologiques, prise en charge thérapeutique optimisée

100%

| Received: 19 November 2019 | Accepted: 30 December 2019 | | |
|----------------------------|--|-------------------------|---------|
| DOI: 10.1002/nau.24276 | | | |
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| dysfunctior | nt of neurogenic lower urin n in patients with multiple | nary tract sclerosis | |

PRISE EN CHARGE THERAPEUTIQUE



- FRÉQUENTE
- INVALIDANTE
- SOURNOISE
- DÉPISTAGE ET SUIVI RÉGULIER DES FACTEURS DE RISQUE URO-NÉPHROLOGIQUES
- ARSENAL THÉRAPEUTIQUE CROISSANT, EFFICACE SUR SYMPTÔMES CLINIQUES COMME URODYNAMIQUES
- ALGORITHME DE PRISE EN CHARGE CODIFIÉ
- INTÉRÊT DE LA MULTIDISCIPLINARITÉ

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