

Consultant, speaker, meetings invitations.	
Astellas	
Allergan	
Vellspect	
Aylan	
rierre-Fabre	
olopiust	





























Author, leed of prod UVD Number at Justice (MMC), leed Mean duration (MMC), leed The since one (MMC), leed Produces of upmon(%) Produces of upmon(%) <th></th> <th></th> <th colspan="3">overactive bladder</th> <th colspan="4">Table 1 Clinical presentation of VUD in MS</th>			overactive bladder			Table 1 Clinical presentation of VUD in MS			
America (198), 197 225 13.3 7.8 7.2 4.2 6.3 4.5 America (76, 128) 2.6 1.2 4.9 11 3.8.5 12 13.5 12 13.5 12 13.5 12 13.5 12 13.5 12 13.5 12 13.5 12 13.5 12 13.5 12 13.5 12 13.5 12 13.5 12 13.5 12 13.5 12 13.5 13.5 12 13.5 13.5 13.5 13.5	Prevalence of urinary retention (%)	Prevalence of dysuria (%)	Prevalence of incontinence/ urgency (%)	Prevalence of pollakiuria (%)	Prevalence of urgency (%)	Time since onset of VD (years)	Mean duration of MS (years)	Number of patients	Author, level of proof (LP)
Anderes, 179, L92 62 12. 4.9 71 38.5 50 12 Medias, 179, L92 62 12.4 4.9 71 38.5 50 12 Best, 179, L92 64 0.4 0.8 55 52 63 49 Best, 179, L97 17 12 6 85 82 63 49 Best, 179, L97 0.0 0 0 46 85 63 62 Best, 179, L97 0.0 0 0 46 86 66 28 Best, 179, L92 24 11 0 41.4 96.6 67 78 Goldsen, 198, L94 86 0 12 22 49 77 75.3 60 Goldsen, 198, L94 86 0 12 22 24 76 76 76 76 76 76 76 76 76 76 76 76 76 76 76 76 7	24	46	63	42	72	7.8	13.3	225	Amarenco, 1995, LSP1
Awad, 19%, 1972 47 16 U 85 65 72 36 Banday, 1972 40 5.4 U 85 65 72 86 Banday, 1972 50 U U U 86 60 72 78 67 78 78 78 78 78 78 78 78 78 78 78 78 78	32.7	12	50	38.5	71	4.9	12.2	62	Andersen, 1976, LSP2
Benefinitini, 1991, 1992, 400 5.4 U 5.3 17.5 Benefinitini, 1991, 1992, 1991, 1992, 1992, 1991,		36	72	65	85	U	16	47	Awad, 1984, LSP2
Betts, 1993, 1997 170 12 6 85 B2 63 49 Betts, 1993, 1997 190 0 0 0 14 64 65 62 Betts, 1993, 1997 190 0 0 0 14 64 64 60 28 Betts, 1993, 1997 196 14.5 67 69.1 67.3 67.9 69.1 77.3 5 Gdates, 1998, 1994 14.6 10 12 12 79 69.1 76.3 Gdates, 1998, 1994 14.6 10 12 12 49 76.5 60 86.5 80.2 10 10 12 10 46 66 6 6 60 66		17.5		25		U	5.4	40	Bemelmans, 1991, LSP2
Indedy, 178, 129 90 U U 86 60 28 Indedy, 178, 129 90 U U 86 60 87 Indedy, 178, 129 90 U U 84 86 86 87 Carlen, 198, US1 19 13 6 69,1 67,7 69,1 75.5 Carlen, 198, US1 16 14 46 22 29 9 75.5 Concol, 198, 192 44 13 46 20 48 56 00 Concol, 198, 192 21 U U 71 76 19 48 Concol, 198, 192 10 U 71 76 19 48 Markin, 198, 192 10 U 71 76 49 44 Markin, 198, 192 10 5 61 39 47 49 UC, seckard I dateret (19, MAIS field ef a dreft (1); U, Unknewr; DS2, detruce and sphincter diserter, V9, voicing dyduction. ULUTS typology : 00.1.9 10	34	49	63	82	85	6	12	170	Betts, 1993, LSP1
le hide, 1981, 1992 30 U U 366 366 80 25 1981, 1991, 1991 16 113 6 407 407 407 25 Cleanardon, 1981, 1991 16 114 5 7.1 807 97 97 75.5 Cleanardon, 1981, 1991 16 114 5 7.1 807 97 97 75.5 Cleanardon, 1981, 1991 16 114 5 7.1 807 97 97 75.5 Cleanardon, 1981, 1991 16 114 5 7.1 807 17 76 19 14 10 10 10 10 10 10 10 10 10 10 10 10 10	20	28		60	86	U	U	90	Bradley, 1978, LSP4
Lindley, 19/12 24 11 U 41.6 77 41.6 25 Lindley, 19/12 10 14 1 12 32 49 77.5 78.5 Codebies, 19/81, 19/8 16 1 4.6 71 4.6 36 36 36 Codebies, 19/81, 19/8 16 1 4.7 71 4.6 36			80	36.6	36.6	U	U	30	de Ridder, 1998, LSP2
Galin, 199 149 13 6 62.7 69.1 Galin, 199, US1 116 14.5 7.1 22 9 9 75.5 Generation, 199, US1 116 14.5 7.1 22 9 9 75.5 Generation, 199, US1 116 14.5 7.1 22 9 9 75.5 Generation, 199, US1 12 12 29 9 76.5 10 46 30 48 30 49 49 49 49 49 49 49 49 49 49 49 49	8.3	25	41.6		41.6	U	11	24	Eardley, 1991, LSP2
Clean intro, 198, L2P 116 114.5 7.1 32 92 97.5 Construction, 198, L2P 124 14 14 32 24 56 10 Iteminusky, 199, L2P 21 0 4 13 21 24 56 10 Iteminusky, 199, L2P 21 0 0 71 76 57 46 Matchin, 199, L2P 21 0 0 71 76 57 46 Mathematic, 199, L2P 31 6 0 36 47 49 VLD, exiscating 102, L2P 32 16 36 47 49 VLD, exiscating 102, L2P 32 16 36 47 49 VLD, exiscating 102, L2P 34 13 36 47 49 VLD, exiscating 102, L2P, AMBL 10 12, L2P, MABL 10 LUTS Interval 102, L2P, L2P, MABL 10 L2P, MABL 10 L2P, MABL 10 L2P, MABL 10 L2			69.1	67.7	69.1	6	13	149	Gallien, 1998, LSP1
Goldense, 1981, 1994 86 U U 32 32 49 Goldense, 1983, 1997 41 1 46 71 46 59 30 Guadanse, 1983, 1997 41 1 46 59 30 46 72 46 59 30 Guadanse, 1985, 1997 32 16 U 44 66 66 6 Molty, 1997, 197 2 0 0 38 47 26 Molty, weak-currentar descriter, 129, AMUS level of vicentific pand 1(); U, Unknown; 050, denour and splatecter duoders; V0, volting dysfunction. 100 96 46 56 6 6 6 6 6 6 6 6 6 6 76 <	52	79.5		99		7.1	14.5	116	Giannantoni, 1998, LSP1
Convol. 1982, 1927 44 13 4.6 70 46 56 90 Memorals, 1982, 1927 21 0 0 71 74 64 56 90 Memorals, 1982, 1927 21 0 0 71 74 64 56 96 Memorals, 1982, 1991, 211 6.5 0 44 66 66 76 Memoral, 1982, 1991, 121 6.5 0 44 68 66 76 Memoral, 1982, 1991, 121 0 5 61 59 47 49 WD, extocarted and ender 198, MMS level of scientific proof []; U, Uninown; DSD, detune and sphincter directive, VD, weighting dynamics. 10 36 47 LUTS are observed in 32 to 97 % (Onset : 6 years (5 to 10 years)) 10 Uninown; DSD, detune and sphincter directive, VD, weighting dynamics. Multiple Sciences and sphincter directive, VD, weighting dynamics. AB = 37%, to 99% Urinary retention = 34% to 79% Image: Science and sphincter directive, VD, weighting dynamics. Image: Science and sphincter directive, VD, weighting dynamics.			49	32	32	U	U	86	Goldstein, 1983, LSP4
Hermisery, 199, UP1 221 U U 71 76 19 48 Machan, 199, UP1 21 0 U 71 76 19 48 Machan, 199, UP1 21 0 U 44 68 6 59 Mile, 198, UP2 22 10 U 44 68 6 59 Mile, 198, UP2 22 10 3 61 39 47 49 VID, velocitarity diodetr, UP, ANUEl Seriel of identific proof [1]; U, Unknown; DSD, detauer and spinicater divertific VD, veloting optimization. LUTS are observed in 32 to 97 % (Onset: 6 yoards (5 to 10 years)) LUTS trans reveal the onset of MS in 10% LUTS hypology : Multiple Sciencisis AB = 37% to 99% Universe to 99%		30	56	48	70	4.6	13	64	Gonor, 1985, LSP2
Kalabaii, 1959; 1979 12 18 U 44 66 66 6 Kalabaii, 1959; 1971 10 5 U 44 66 66 6 Modewin, 1959; 1971 10 5 U 44 66 66 6 Molewin, 1959; 1971 10 U 13 34 47 26 Mole, veskcurethral dioder, US, MAIS level of identific pool (1) U benewin; 050, detoor and uphrater diodering: V0, widing dynduction. 115 40 49 UCD, veskcurethral dioder, US, MAIS level of identific pool (1) U benewin; 050, detoor and uphrater diodering: V0, widing dynduction. IUTS are observed in 32 to 37 66	73.8	48	19	76	71	U	Ü.	221	Hennessey, 1999, ISP1
Kolewin, 198, 199, 191 21 6.5 Ú 18 7 7 Mini, 198, 192, 192 120 0.1-9 5 61 39 47 69 Mini, 198, 192, 192 120 0.1-9 5 61 39 47 69 UK, wikowrk1 divels (19, MMS level of sidentific pool [1]; U, Uninowy, DSD, detrace and spinicter disedery VD, weiling optimicitis. Multiple Sciencesis LUTS are observed in 32 to 97 % (Onset : 6 years (5 to 10 years)) 1 </td <td></td> <td>6</td> <td>66</td> <td>66</td> <td>44</td> <td>ŭ</td> <td>18</td> <td>32</td> <td>Kasabian, 1995, LSP2</td>		6	66	66	44	ŭ	18	32	Kasabian, 1995, LSP2
Think, 198(1992) 22 10 1.9 1 36 47 49 VID, veckourdhy diseter, 192, VAUS level of scientific proof [1]; U, Unknown; DSD, detruor and sphercer diseterity: VD, vecking optimizing. ULT are observed in 32 to 97 % (Orset: 6 years (5 to 10 years)) ULTS are observed in 0 years (5 to 10 years)) ULTS can reveal the onset of MS in 10% Uring yrelention = 34% to 79% Multiple Sciences Sciences Sciences	27	26		38		ŭ	6.5	211	Koldewin, 1995, LSP1
Null, vescourtherd alcoher, UP, NMSI lovel of scientific pool [1]; U loverour, DSD, detours and upbrictle disorder; VD, vesting dystruction. UTUS are coherened in 32 to 37 with the scientific pool [1]; U loverour, DSD, detours and upbrictle disorder; VD, vesting dystruction. UTUS are coherened in 32 to 37 with the scientific pool [1]; U loverour, DSD, detours and upbrictle disorder; VD, vesting dystruction. UTUS are coherened in 32 to 37 with the scientific pool [1]; U loverour, DSD, detours and upbrictle disorder; VD, vesting dystruction. UTUS are coherened in 32 to 37 with the scientific pool [1]; U loverour, DSD, detours and upbrictle disorder; VD, vesting dystruction. UTUS are coherened in 32 to 37 with the scientific pool [1]; U loverour, DSD, detours and upbrictle disorder; VD, vesting dystruction. UTUS are coherened in 32 to 37 with the scientific pool [1]; U loverour, DSD, detours and upbrictle disorder; VD, vesting dystruction. UTUS are coherened in 32 to 37 with the scientific pool [1]; U loverour, DSD, detours and upbrictle disorder; VD, vesting dystruction. UTUS are coherened in 32 to 37 with the scientific pool [1]; U loverour, DSD, detours and upbrictle disorder; VD, vesting dystruction. UTUS typology : OAB = 37%; to 99%; Urinary releation = 34% to 79%;			47	59	61	5	10	52	Philo, 1981, 15P2
VUD, veskourethral dixetter (19, ANAS level of scientific proof (1); U, Uninexem; DSD, detructer and splincter dixetters; VD, vesking dystruction. LUTS are observed in 32 to 97 % (Onset: 6 years (5 to 10 years)) LUTS are reveal the onset of MS in 10% LUTS typology : OAB = 37% to 99% Urinary retention = 34% to 79%	49	49		36		ũ	0.1-9	120	Porru, 1997, LSP1
Correlations LUTS and : • pyramidal signs – OAB							7%	d in 32 to 9	LUTS are observe



























































