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neuropad®

Anhidrosetest
(Sudomotorische Dysfunktion)
und Früherkennungstest des
Diabetischen Fuß-Syndroms



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1	<p>“Measurement of perspiration in the diabetic foot” Zick R., Schäper T., Deeters U St. Bonifatius Hospital Lingen, Academic Hospital of the Medical University Hanover, Germany</p>	“Der Klinikarzt”	Klinikarzt 2003; 32: 288-290
2	<p>“Evaluation of the new indicator plaster (neuropad®) in the diagnosis of peripheral neuropathy among Type 2 diabetic patients” N. Papanas¹, K. Papatheodorou¹, D. Christakidis², Papazoglou¹, G. Giassakis³, H. Piperidou³, Ch. Monastiriotis¹, E. Maltezos¹. ¹Second Department of Internal Medicine, Democritus University of Thrace, Greece ²Diabetic Department, General Hospital of Alexandroupolis, Greece ³Department of Neurology, Democritus University of Thrace, Alexandroupolis, Greece</p>	Experimental & Clinical Endocrinology Journal	Experimental & Clinical Endocrinology Journal 04/2005: 113: 1-4
3	<p>"Reproducibility of the new indicator test for sudomotor function (neuropad®) in patients with type 2 diabetes mellitus" N. Papanas¹, K. Papatheodorou¹, D. Papazoglou¹, D. Christakidis², Ch. Monastiriotis¹, E. Maltezos¹. ¹Second Department of Internal Medicine, Democritus University of Thrace, Greece ²Diabetic Department, University Hospital of Alexandroupolis, Greece "Reproducibility of the new indicator test for sudomotor function (neuropad®) in patients with type 2 diabetes mellitus"</p>	Experimental & Clinical Endocrinology Journal	Experimental & Clinical Endocrinology Journal 10/2005: 113 577-581
4	<p>"Usefulness of a new indicator test for the diagnosis of peripheral and autonomic neuropathy in patients with diabetes mellitus" S. Liatis, K. Marinou, N. Tentolouris, S. Pagoni and N. Katsilambros First Department of Internal Medicine, Athens University Medical School and Diabetes Centre, Laiko General Hospital, Athens, Greece</p>	Diabetic Medicine	Diabetic Medicine Volume 24, Issue 12 , Pages1375 - 1380, 2007
5	<p>"The new indicator test (neuropad®): A valuable diagnostic tool for small fibre impairment in Type 2 diabetic patients" N. Papanas¹, K. Papatheodorou¹, D. Papazoglou¹, D. Christakidis³, Ch. Monastiriotis¹, E. Maltezos¹. ¹Second Department of Internal Medicine, Democritus University of Thrace, ³Diabetic Department, University Hospital of Alexandroupolis, Greece</p>	The Diabetes Educator	The Diabetes Educator.2007; 33: 257-266

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6	<p>"Sensitivity and specificity of the new indicator test (neuropad®) for the diagnosis of peripheral neuropathy in type 2 diabetes patients: a comparison with clinical examination and nerve conduction study"</p> <p>N. Papanas¹, G. Giassakis³, K. Papatheodorou¹, D. Papazoglou¹, C. Monastiriotis¹, D. Christakidis³, H. Piperidou², E. Maltezos¹</p> <p>¹Second Department of Internal Medicine, Democritus University of Thrace, ²Department of Neurology, Democritus University of Thrace, ³Diabetic Department, University Hospital of Alexandroupolis, Greece</p>	Journal of Diabetes and its complications	"Journal of Diabetes and its complications" 21 (2007) p. 353-358
7	<p>"Use of the new indicator test (neuropad®) for the assessment of the staged severity of neuropathy in type 2 diabetic patients"</p> <p>N. Papanas¹, G. Giassakis², K. Papatheodorou¹, D. Papazoglou¹, C. Monastiriotis, D. Christakidis³ H. Piperidou², E. Maltezos¹</p> <p>¹Second Department of Internal Medicine, Democritus University of Thrace, ²Department of Neurology, Democritus University of Thrace, ³Diabetic Department, University Hospital of Alexandroupolis, Greece</p>	Experimental & Clinical Endocrinology	"Experimental & Clinical Endocrinology and Diabetes", 01/2007; 115(1), 58-61
8	<p>"Erectile dysfunction in diabetic men is linked more to microangiopathic complications and neuropathy than to macroangiopathic disturbances"</p> <p>Zdravko A. Kamenov, Vladimir G. Christov, Tsanka M. Yankova Clinic of Endocrinology, Alexandrovska University Hospital, Medical University, Sofia, Bulgaria</p>	The journal of men's health & gender	The journal of men's health & gender, 4 (1), p.64-73, Mar 2007
9	<p>"Sweat function evaluation for early diagnosis of diabetic peripheral neuropathy"</p> <p>Shen J, Cao Y, Han YJ, Luo XR, Xie CH, Li JM, Xue YM. Department of Endocrinology, Nanfang Hospital, Southern Medical University, Guangzhou 510515, China</p>	Nan Fang Yi Ke Da Xue Xue Bao.	Nan Fang Yi Ke Da Xue Xue Bao. 2007 Aug;27(8):1210-2
10	<p>„Neuropad® Indicator Test for Diagnosis of Sudomotor Dysfunction in Type 2 Diabetes“</p> <p>Habib Bilen¹, Aysegul Atmaca², Gungor Akcay¹</p> <p>¹Department of Internal Medicine, Division of Endocrinology and Metabolism, Ataturk University School of Medicine, Erzurum, ²Division of Endocrinology and Metabolism Ondokuz Mayıs University School of Medicine Samsun, Turkey</p>	Advances in Therapy	Advances in Therapy 2007 Sep-Oct;24(5):1020-7.

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11	<p>“Evaluation of the Self-administered Indicator Plaster Neuropad for the Diagnosis of Neuropathy in Diabetes“</p> <p>Nicholas Tentolouris, Vasilis Achtsidis, Kyriaki Marinou, Nicholas Katsilambros 1st Department of Propaedeutic Medicine, Athens University Medical School, Laiko General Hospital, Athens, Greece</p>	Diabetes Care	Diabetes Care. 2008 Feb;31(2):236-7.
12	<p>"Examination of tactile disorders in diabetic patients and cooperation with a neurologist"</p> <p>Jirkovská A, Boucek P. Centrum diabetologie Institutu klinické a experimentální medicíny Prague, Czech Republic</p>	Vnitr Lek.	Vnitr Lek. 2007 May;53(5):489-94.
13	<p>"Fungal foot infections in patients with diabetes mellitus - results of two independent investigations"</p> <p>Eckhard M.¹, Lengler A.¹, Liersch J.¹, Bretzel R. G.¹, Maysr P.² ¹Third Medical Department, Diabetes-Center ²Center of Dermatology and Andrology, Justus Liebig University, Giessen, Germany</p>	Mycoses	Mycoses, Volume 50, Supplement 2, September 2007 , pp. 14-19(6)
14	<p>"A comparison of the new indicator test for sudomotor function (Neuropad) with the vibration perception threshold and the clinical examination in the diagnosis of peripheral neuropathy in subjects with type 2 diabetes".</p> <p>Papanas N, Papatheodorou K, Papazoglou D, Monastiriotes C, Christakidis D, Maltezos E. Second Department of Internal Medicine, Democritus University of Thrace, University Hospital of Alexandroupolis, Dragana, Alexandroupolis, Greece</p>	Experimental & Clinical Endocrinology and Diabetes	Exp Clin Endocrinol Diabetes. 2008 Feb;116(2):135-8.
15	<p>"The Neuropad test: a visual indicator test for human diabetic neuropathy"</p> <p>C. Quattrini^{1,4}, M. Jeziorska², M. Tavakoli^{1,4}, P. Begum³, A. J. M. Boulton^{1,4} and R. A. Malik^{1,4}. ¹Division of Cardiovascular Medicine, Core Technology Facility, University of Manchester, 46 Grafton Street, Manchester, ²Division of Regenerative Medicine, University of Manchester, Manchester, ³Department of Gastrointestinal Sciences, Clinical Sciences Building, Salford Royal Hospitals, Salford, ⁴Manchester Diabetes Centre, Manchester Royal Infirmary, Manchester, UK</p>	Diabetologia	Diabetologia Volume 51, Number 6 / June, 2008

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16	<p>"Neuropad as a diagnostic tool for diabetic autonomic and sensorimotor neuropathy" Spallone V, Morganti R, Siampoli M, Fedele T, D'Amato C, Cacciotti L, Maiello MR. Endocrinology, Department of Internal Medicine, Tor Vergata University, Rome, Italy</p>	Diabetic Medicine	Diabet Med. 2009 Jul;26(7):686-92
17	<p>„Use of Nanotechnology-Designed Footsock in the Management of Preulcerative Conditions in the Diabetic Foot: Results of a Single, Blind Randomized Study“ Alberto Piaggese, Banchellini Elisa, Macchiarini Silvia, Dini Valentina, Rizzo Loredana, Tedeschi Anna, Scatena Alessia, Goretti Chiara, Campi Fabrizio, Romanelli Marco MD Department of Endocrinology and Metabolism, Azienda Ospedaliera Universitaria Pisana, Via Paradisa, Pisa 2–56124, Italy</p>	The International Journal of Lower Extremity Wounds	The International Journal of Lower Extremity Wounds Volume 7 Number 2 June 2008 82-87
18	<p>"Moisture status of the skin of the feet assessed by the visual test neuropad correlates with foot ulceration in diabetes" Tentolouris N, Voulgari C, Liatis S, Kokkinos A, Eleftheriadou I, Makrilakis K, Marinou K, Katsilambros N. 1st Department of Propaedeutic Medicine, Athens University Medical School, Laiko General Hospital, Athens, Greece</p>	Diabetes Care	Diabetes Care. 2010 May;33(5):1112-4.
19	<p>"Diagnosis of diabetic neuropathy using simple somatic and a new autonomic (neuropad) tests in the clinical practice." Kamenov ZA, Petrova JJ, Christov VG. Clinic of Neurology, Alexandrovska University Hospital, Medical University - Sofia, Bulgaria</p>	Experimental & Clinical Endocrinology	Exp Clin Endocrinol Diabetes. 2010 Apr;118(4):226-33.
20	<p>"The Neuropad test in the screening of peripheral neuropathy in diabetic patients" Freitas C, Carvalho A, Melo-Rocha G, Amaral C, Pinto S, Guimarães R, Neto H, Suascun J, Muras J, Gonçalves I, Martins J, Dores J, Carvalho R, Borges F .Serviços de Endocrinologia, Hospital de Santo António, Porto</p>	Acta Medical Portuguesa	Acta Med Port. 2009 Nov-Dec;22(6):729-34.
21	<p>"Increased serum levels of uric acid are associated with sudomotor dysfunction in subjects with type 2 diabetes mellitus." Papanas N, Demetriou M, Katsiki N, Papatheodorou K, Papazoglou D, Gioka T, Kotsiou S, Maltezos E, Mikhailidis DP.</p>	Exp Diabetes Res	Exp Diabetes Res. 2011;2011:346051

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22	<p>"Association between foot temperature and sudomotor dysfunction in type 2 diabetes." Papanas N, Papatheodorou K, Papazoglou D, Kotsiou S, Maltezos E. Second Department of Internal Medicine, Democritus University of Thrace, University Hospital of Alexandroupolis, Dragana, Alexandroupolis, Greece</p>	Journal of Diabetes Science and Technology	Journal of Diabetes Science and Technology
23	<p>"A Prospective Study on the use of the Indicator Test Neuropad(R) for the Early Diagnosis of Peripheral Neuropathy in type 2 Diabetes" Papanas N, Papatheodorou K, Papazoglou D, Kotsiou S, Maltezos E. Outpatient Clinic of Obesity, Diabetes and Metabolism in the Second Department of Internal Medicine, Democritus University of Thrace, Greece</p>	Experimental & Clinical Endocrinology and Diabetes	Exp Clin Endocrinol Diabetes. 2011 Feb;119(2):122-5.
24	<p>"Accuracy of the Neuropad test for the diagnosis of distal symmetric polyneuropathy in type 2 diabetes." Papanas N, Paschos P, Papazoglou D, Papatheodorou K, Paletas K, Maltezos E, Tsapas A. Outpatient Clinic of Obesity, Diabetes and Metabolism in the Second Department of Internal Medicine, Democritus University of Thrace, Alexandroupolis, Greece</p>	Diabetes Care	Diabetes Care. 2011 Jun;34(6):1378-82.
25	<p>"Neuropad: evaluation of three cut-off points of sudomotor dysfunction for early detection of polyneuropathy in recently diagnosed diabetes." Ziegler D, Papanas N, Roden M; for the GDC Study Group. Institute for Clinical Diabetology, German Diabetes Center at the Heinrich Heine University, Leibniz Center for Diabetes Research; Department of Metabolic Diseases, University Hospital, Düsseldorf, Germany</p>	Diabetic Medicine	Diabet Med. 2011 Jun 9. doi: 10.1111/j.1464-5491.2011.03345.x. [Epub ahead of print]
26	<p>"Corneal sensitivity is related to established measures of diabetic peripheral neuropathy" Nicola Pritchard BAppSc(Optom) FAAO¹, Katie Edwards PhD¹, Dimitrios Vagenas PhD¹, Anthony W Russell MBBS PhD^{2,3}, Rayaz A Malik MD PhD⁴, Nathan Efron PhD DSc¹ ¹Institute of Health and Biomedical Innovation, Queensland University of Technology, ²Department of Diabetes and Endocrinology, Princess Alexandra Hospital, ³School of Medicine, University of Queensland, Australia ⁴Division of Cardiovascular Medicine, University of Manchester and Central Manchester</p>	Clinical and Experimental Optometry	Clinical and Experimental Optometry Volume 95, Issue 3, pages 355–361, May 2012

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27	<p>„A Simple and Rapid Quantitative Sweat Test Based on Cobalt Chloride Color Change" Moser J. ¹, Kriehuber E ², Trautinger F. ¹ ¹Karl Landsteiner Institute for Dermatological Research, St. Poelten, ²Novartis Institutes for Biomedical Research, Vienna, Austria</p>	Skin Pharmacology and Physiology	Skin Pharmacology and Physiology Vol. 25, No. 3, 2012
28	<p>"Useful Application of the Neuropad Test for Assessment of Diabetic Polyneuropathy" Keiji Yoshioka¹, Hiroshi Okada² ¹ Yoshioka Diabetes Clinic, Japan ² Department of Diabetes and Endocrinology, Matsushita Memorial Hospital, Japan</p>	Internal Medicine	Internal Medicine Vol. 51 (2012) No. 23 p. 3241-3245
29	<p>„The diagnostic value of water immersion skin wrinkling and Neuropads in small fiber neuropathy" Mirjam Datema¹, J. Gert van Dijk¹, Elske Hoitsma² ¹Department of Neurology and Clinical Neurophysiology, Leiden University Medical Center, The Netherlands</p>	Clinical Neurophysiology	Clinical Neurophysiology Volume 123, Issue 10, October 2012, Pages 2074–2079
30	<p>"Evaluation of the Neuropad sudomotor function test as a screening tool for polyneuropathy in the elderly population with diabetes and pre-diabetes: the KORA F4 survey" D. Ziegler^{1,2}, N. Papanas¹, W. Rathmann³, M. Heier⁴, M.Scheer³, C. Meisinger⁴, KORA Study Group ¹Institute for Clinical Diabetology, German Diabetes Center at the Heinrich Heine University, Leibniz Center for Diabetes Research, Düsseldorf ²Department of Metabolic Diseases, University Hospital, Düsseldorf, ³ Institute of Biometrics and Epidemiology, German Diabetes Center at the Heinrich Heine University, Leibniz Center for Diabetes Research, Düsseldorf, ⁴ Institute of Epidemiology II, Helmholtz Zentrum München – German Research Center for Environmental Health, Neuherberg, Germany</p>	Diabetes/Metabolism Research and Reviews	Diabetes/Metabolism Research and Reviews Volume 28, Issue 8, pages 692–697, November 2012
31	<p>"Influence of peripheral arterial occlusive disease on the Neuropad® test performance in patients with diabetes" C. E. Aubert¹, J. Le Doeuff², J. Lajou³, O. Barthelemy⁴, A. Hartemann^{1,5}, O. Bourron^{1,5} ¹Diabetes and Metabolic Diseases Department, AP-HP, Pitié-Salpêtrière Hospital, Paris, ²Vascular Surgery Department, AP-HP, Pitié-Salpêtrière Hospital, Paris, ³Private Angiology Practice, Paris, ⁴Cardiology Department, AP-HP, Pitié-Salpêtrière Hospital, Paris, ⁵University Pierre and Marie Curie, Paris, France</p>	Diabetic Medicine	Diabetic Medicine Volume 30, Issue 5, pages e178–e184, May 2013

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32	<p>"Relationship of Limited Joint Mobility and Foot Deformities with Neurological Examination in Patients with Diabetes"</p> <p>Sanz-Corbalán¹, J. L. Lázaro-Martínez¹, E. García-Morales¹, J. Aragón-Sánchez², D. Carabantes-Alarcón¹, Y. García-Álvarez¹</p> <p>¹Diabetic Foot Unit, Complutense University Clinic, Madrid, Spain ²Diabetic Foot Unit, La Paloma Hospital, Las Palmas de Gran Canaria, Spain</p>	Experimental & Clinical Endocrinology and Diabetes	Exp Clin Endocrinol Diabetes 2013; 121(04): 239-243
33	<p>"Hypohidrosis induced by topiramate in an adult patient"</p> <p>Karachristianou S, Papamichalis E, Sarantopoulos A, Boura P, Georgiadis G.</p>	Epileptic Disord.	Epileptic Disord. 2013 Jun;15(2):203-6. doi: 10.1684/epd.2013.0568.
34	<p>"Differences in skin microcirculation on the upper and lower extremities in patients with diabetes mellitus: relationship of diabetic neuropathy and skin microcirculation"</p> <p>Tomešová J, Gruberova J, Lacigova S, Cechurova D, Jankovec Z, Rusavy Z.</p>	Diabetes Technol Ther.	Diabetes Technol Ther. 2013 Nov;15(11):968-75. doi: 10.1089/dia.2013.0083. 2013 Aug 21
35	<p>"A simple plaster for screening for diabetic neuropathy: a diagnostic test accuracy systematic review and meta-analysis"</p> <p>Tsapas A, Liakos A, Paschos P, Karagiannis T, Bekiari E, Tentolouris N, Boura P.</p>	Metabolism.	Metabolism. 2014 Apr;63(4):584-92. doi: 10.1016/j.metabol.2013.11.019. Dec 7. Review
36	<p>"The indicator test Neuropad in the assessment of small and overall nerve fibre dysfunction in patients with type 2 diabetes: a large multicentre study"</p> <p>Manes C, Papanas N, Exiara T, Katsiki N, Papantoniou S, Kirlaki E, Tsotoulidis S, Kefalogiannis N, Maltezos E.</p>	Exp Clin Endocrinol Diabetes.	Exp Clin Endocrinol Diabetes. 2014 Mar;122(3):195-9. doi: 10.1055/s-0034-1367061. 2014 Mar 18
37	<p>"Neuropad test for sudomotor function to predict the risk of diabetic foot ulceration"</p> <p>Qin Y, Cao Y, Gao F, Luo X, Li J, Fu X, Xue Y.</p>	Nan Fang Yi Ke Da Xue Xue Bao	2014 Apr;34(4):560-2. Chinese.
38	<p>"The diagnostic accuracy of Neuropad® for assessing large and small fibre diabetic neuropathy"</p> <p>Ponirakis G, Petropoulos IN, Fadavi H, Alam U, Asghar O, Marshall A, Tavakoli M, Malik RA.</p>	Diabetic Medicine	Diabet Med. 2014 Jun 26. doi: 10.1111/dme.12536

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39	<p>“Correlation between sudomotor function, sweat gland duct size and corneal nerve fiber pathology in patients with type 2 diabetes mellitus” Fukashi Ishibashi*, Rie Kojima, Asami Kawasaki, Emi Yamanaka, Aiko Kosaka, Harumi Uetake Ishibashi Clinic, Hiroshima, Japan</p>	Journal of Diabetes Investigation	Diabetes Invest Vol. 5 No. 5 September 2014
40	<p>“Automated Quantification of Neuropad Improves Its Diagnostic Ability in Patients with Diabetic Neuropathy” Georgios Ponirakis,^{1,2} Hassan Fadavi,² Ioannis N. Petropoulos,^{1,2} Shazli Azmi,² Maryam Ferdousi,² Mohammad A. Dabbah,^{2,3} Ahmad Kheyami,² Uazman Alam,² Omar Asghar,² Andrew Marshall,² Mitra Tavakoli,² Ahmed Al-Ahmar,² Saad Javed,² Maria Jeziorska,² and Rayaz A. Malik^{1,2} ¹Research Division, Weill Cornell Medical College in Qatar, Qatar Foundation, P.O. Box 24144, Education City, Doha, Qatar ²Institute of Human Development, Centre for Endocrinology & Diabetes, Faculty of Medical and Human Sciences, University of Manchester and NIHR/Wellcome Trust Clinical Research Facility, Manchester M13 9NT, UK ³Roke Manor Research Ltd, Old Salisbury Lane, Romsey, Hampshire SO51 0ZN, UK</p>	Journal of Diabetes Research	Volume 2015, Article ID 847854, 7 pages http://dx.doi.org/10.1155/2015/847854
41	<p>“Neuropad for the detection of cardiovascular autonomic neuropathy in patients with type 2 diabetes” Mendivil CO, Kattah W, Orduz A, Tique C, Cárdenas JL, Patiño JE Endocrinology Section, Department of Internal Medicine, Fundación Santafé de Bogotá, Colombia School of Medicine, Universidad de los Andes, Bogotá, Colombia</p>	Journal Diabetes Complications	2016 Jan-Feb;30(1):93-8
42	<p>“Quantitative sensory testing in type 1 diabetic patients with mild to severe diabetic neuropathy” Ahmed T. Alahmar MSc College of Medicine, University of Babylon, Iraq</p>	Journal of Research in Medical and Dental Science	Vol. 4 / Issue 2 / April-June 2016
43	<p>“Screening tests for distal symmetrical polyneuropathy in Latin American patients with type 2 diabetes mellitus” Nicolás Gómez-Banoy, Virginia Cuevas, Fernando Soler, Maria Fernanda Pineda, Ismena Mockus, Laboratorio de Lípidos y Diabetes, Facultad de Medicina, Universidad Nacional de Colombia, Bogotá, Colombia</p>	Archives of Endocrinology and Metabolism	vol.61 no.5 São Paulo Sept./Oct. 2017

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44	<p>„Early detection of neuropathy in leprosy: a comparison of five tests for field settings“ ¹Inge Wagenaar, Erik Post², Wim Brandsma³, Dan Ziegler^{4,5}, Moshir Rahman⁶, Khorshed Alam⁶ and Jan Hendrik Richardus¹ ¹Department of Public Health, Erasmus MC, Rotterdam, The Netherlands ²KIT Health, Royal Tropical Institute, Amsterdam, The Netherlands ³Independent leprosy consultant, Amsterdam, The Netherlands ⁴Institute for Clinical Diabetology, German Diabetes Center at Heinrich Heine University, Leibniz Center for Diabetes Research, Düsseldorf, Germany ⁵Department of Endocrinology and Diabetology, Medical Faculty, Heinrich Heine University, Düsseldorf, Germany ⁶Rural Health Program, The Leprosy Mission International-Bangladesh, Nilphamari, Bangladesh</p>	Infectious Diseases of Poverty	(2017) 6:115 DOI 10.1186/s40249-017-0330-2
45	<p>“Advantages of early diagnosis of diabetic neuropathy in the prevention of diabetic foot ulcers” Irene Sanz-Corbalán, José Luis Lázaro-Martínez, Esther García-Morales, Raúl Molines-Barroso, Francisco Álvaro-Afonso, Yolanda García-Álvarez Diabetic Foot Unit, Universidad Complutense de Madrid, Madrid, Spain</p>	Diabetes Research and Clinical Practice	Available online 27 December 2017 146 (2018) 148–154149
46	<p>“Validation of Neuropad in the Assessment of Peripheral Diabetic Neuropathy in Patients with Diabetes Mellitus Versus the Michigan Neuropathy Screening Instrument, 10 g Monofilament Application and Biothesiometer Measurement” Zografou, Ioanna¹, Iliadis, Fotios², Sambanis, Christos¹, Didangelos, Triantafyllos² ¹Diabetes Center, 2nd Propedeutic Department of Internal Medicine, Aristotle University of Thessaloniki, Hippocraton Hospital, Greece. ²Diabetes Center, 1st Propedeutic Department of Internal Medicine, Aristotle University of Thessaloniki, "AHEPA" Hospital, Greece</p>	Current Vascular Pharmacology	2019, 17, 1-6
47	<p>“Sensitivity and specificity of the Neuropad for distal sensory peripheral neuropathy (DSPN) in subjects with HIV-Infection: A case controlled observational study” Katie L. Laurin, Paul D. Blanchard¹ Research Centre, University College of Osteopathy, 275 Borough High Street, London, SE1, UK</p>	International Journal of Osteopathic Medicine	31 (2019) 1–62

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48	<p>“Assessment of autonomic innervation of the foot in familial amyloid polyneuropathy” Zouari HG^{1,2,3}, Ng Wing Tin S^{4,5}, Wahab A^{1,2}, Damy T. ^{6,7,8}, Lefaucheur J.-P^{1,2,8}.</p> <p>¹EA 4391, Faculté de Médecine, Université Paris Est Créteil, Créteil, France. ²Service de Physiologie, Explorations Fonctionnelles, Unité de Neurophysiologie Clinique, Hôpital Henri Mondor, Assistance Publique - Hôpitaux de Paris, Créteil, France. ³Service d'Explorations Fonctionnelles, CHU Habib Bourguiba, Sfax, Tunisie. ⁴Service de Physiologie, Explorations Fonctionnelles et Médecine du Sport, Hôpital Avicenne, Assistance Publique - Hôpitaux de Paris, Bobigny, France. ⁵EA 2363, UFR SMBH, Université Paris 13, Bobigny, France. ⁶Service de Cardiologie, Unité d'Insuffisance, Hôpital Henri Mondor, Assistance Publique - Hôpitaux de Paris, Créteil, France. ⁷GRC Institut de Recherche sur l'Amylose, Faculté de Médecine, Université Paris Est Créteil, Créteil, France. ⁸Réseau Amylose Henri-Mondor, Hôpital Henri Mondor, Créteil, France.</p>	European Journal of Neurology	2019 Jan;26(1):94-e10. doi: 10.1111/ene.13774. Epub 2018 Sep 12.
49	<p>“Assessment of sudomotor dysfunction using Neuropad and Sudoscan in diabetic polyneuropathy” GJ Bönhof¹, A Strom², N Papanas³, RA Malik⁴, J Szendrödi², K Müssig², M Roden², D Ziegler².</p> <p>¹Deutsches Diabetes-Zentrum (DDZ), Leibniz-Zentrum für Diabetes-Forschung an der Heinrich-Heine-Universität Düsseldorf, Düsseldorf, Germany ²Deutsches Diabetes-Zentrum, Leibniz-Zentrum für Diabetes-Forschung an der Heinrich-Heine-Universität Düsseldorf, Institut für Klinische Diabetologie, Düsseldorf, Germany ³Diabetes Center, Diabetic Foot Clinic, Democritus University of Thrace, Second Department of Internal Medicine, Alexandroupolis, Greece ⁴Weill Cornell Medicine-Qatar, Education City, Doha, Qatar</p>	Diabetologie und Stoffwechsel	2019; 14(S 01): 550-551
50	<p>“An atypical and bilateral presentation of Charcot foot disease” Loupa CV¹, Meimeti E. ¹, Kokas A. ², Voyatzoglou ED. ¹, Donou A. ¹</p> <p>¹Demetrios Voyatzoglou Diabetic Foot Clinic, Amalia Fleming Hospital Unit, 14, 25th of March st., Melissa, GR-15127, Athens, Greece. ²Radiology Department, Amalia Fleming Hospital Unit, Athens, Greece.</p>	BMC Endocrine Disorders	2019 Sep 5;19(1):96. doi: 10.1186/s12902-019-0422-z.

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51	<p>„Hypertension contributes to neuropathy in patients with type 1 diabetes“ Georgios Ponirakis¹, Ioannis N. Petropoulos¹, Uazman Alam^{2,3}, Maryam Ferdousi², Omar Asghar², Andrew Marshall², Shazli Azmi², Maria Jeziorska², Ziyad R. Mahfoud¹, Andrew J.M. Boulton⁴, Nathan Efron⁵, Hitoshi Nukada⁶, and Rayaz A. Malik^{1,2,7} ¹ Weill Cornell Medicine-Qatar, Qatar Foundation, Education City, Doha, Qatar. ² Institute of Cardiovascular Science, University of Manchester, Manchester, UK. ³ Eye and Vision Sciences, Institute of Ageing and Chronic Disease, University of Liverpool, UK. ⁴ Centre for Endocrinology and Diabetes, Institute of Human Development, Faculty of Medical and Human Sciences, University of Manchester and NIHR/Wellcome Trust Clinical Research Facility, Manchester, UK. ⁵ Institute of Health and Biomedical Innovation, Queensland University of Technology, Queensland, Australia. ⁶ Nukada Institute for Medical and Biological Research, Chiba, Japan. ⁷ Faculty of Science and Engineering, Manchester Metropolitan University, Manchester, UK.</p>	Infectious Diseases of Poverty	(2017) 6:115 DOI 10.1186/s40249-017-0330-2
52	<p>“Cost-effectiveness analysis of the Neuropad device as a screening tool for early diabetic peripheral neuropathy” Rodríguez-Sánchez B¹, Peña-Longobardo LM², Sinclair AJ³ ¹ Faculty of Law and Social Sciences, University of Castilla-La Mancha, Calle San Pedro Mártir 7, 45002, Toledo, Spain. beatriz.rsanchez@uclm.es. ² Faculty of Law and Social Sciences, University of Castilla-La Mancha, Calle San Pedro Mártir 7, 45002, Toledo, Spain. ³ Foundation for Diabetes Research in Older People, Diabetes Frail Ltd, University of Aston, Birmingham, UK.</p>	Eur J Health Econ.	2020 Apr;21(3):335-349. doi: 10.1007/s10198-019-01134-2. Epub 2019 Nov 12.
53	<p>“Prueba diagnóstica de disfunción sudomotora en la detección precoz de la neuropatía diabética Sudomotor dysfunction diagnostic test fore arly detection of diabetic neuropathy” N Lorenzini, C Díaz, T Quintana</p>	Rev Med Chile	2020; 148: 54-59
54	<p>“Earlier Development of Diabetic Neuropathy in Men Than in Women With Type 2 Diabetes Mellitus” Zdravko Asenov Kamenov, MD, PhD, DMedSc¹; Rumyana Atanasova Parapunova, MD¹; and Rumyana Taneva Georgieva, MS² ¹Clinic of Endocrinology, Medical University Sofia, Bulgaria; and ²Sofia University, Sofia, Bulgaria</p>	GENDER MEDICINE	VOL. 7, NO. 6, 2010

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55	<p>„Diagnosing and managing diabetic somatic and autonomic neuropathy “ Shazli Azmi, Maryam Ferdousi, Alise Kalteniece, Hamad Al-Muhannadi, Abdulrahman Al-Mohamedi, Nebras H. Hadid, Salah Mahmoud, Harun A. Bhat, Hoda Y. A. Gad, Adnan Khan, Georgios Ponirakis, Ioannis N. Petropoulos, Uazman Alam and Rayaz A. Malik</p>	Therapeutic Advances in Endocrinology and Metabolism	2019, Vol. 10: 1–10
56	<p>“Quantitative sensory testing in type 1 diabetic patients with painful and painless diabetic neuropathy” Ahmed T. Alahmar^{1,2}</p>	Disease and Molecular Medicine	Dis Mol Med 2016;4:24-30

N°	Title	Journal	Details
1	<p>"Early detection of changes in the feet of diabetic patients with indicator test Neuropad®" O.Schnell¹, M.Müller², E.Standl¹. ¹Institut für Diabetesforschung, München/Neuherberg ²Sciarc GmbH, Pullach</p>	Diabetes, Metabolism, and the Heart	Diabetes, Metabolism, and the Heart Volume 17, No 3, pp 203-210
2	<p>"Neuropad: early diagnostic test for diabetic peripheral neuropathy" Rayaz Malik PhD, FRCP Professor of medicine, Manchester Royal Infirmary and University of Manchester</p>	Prescriber	Prescriber 19 November 2008
3	<p>"The Neuropad test is an effective screening tool for diabetic neuropathy" Rayaz Malik PhD, FRCP Professor of medicine, Manchester Royal Infirmary and University of Manchester</p>	Nature Clinical Practice Endocrinology & Metabolism	Nature Clinical Practice Endocrinology & Metabolism (2008) 4, 479
4	<p>"New diagnostic tests for diabetic distal symmetric polyneuropathy." Papanas N¹, Ziegler D². ¹Outpatient Clinic of the Diabetic Foot in the Second Department of Internal Medicine at Democritus University of Thrace, Greece ²Deutsches Diabetes-Zentrum, Leibniz-Zentrum für Diabetes-Forschung an der Heinrich-Heine-Universität Düsseldorf, Institut für Klinische Diabetologie, Düsseldorf, Germany</p>	Journal of Diabetes and its complications	2011 Jan-Feb;25(1):44-51
5	<p>"Screening for the High-risk Foot of Ulceration: Tests of Somatic and Autonomic Nerve Function." Argiana V, Eleftheriadou I, Tentolouris N. 1st Department of Propaedeutic and Internal Medicine, Athens University Medical School, Athens, Greece.</p>	Current Diabetes Report	Curr Diab Rep. 2011 Aug;11(4):294-301
6	<p>"The Pathway to Foot Ulceration in Diabetes" Andrew J.M. Boulton, MD, FRCP^{1,2,3} ¹European Association for the Study of Diabetes, Düsseldorf, Germany; ²Manchester Royal Infirmary, University of Manchester, Manchester, UK; ³University of Miami, Coral Gables, FL, USA</p>	Medical Clinics of North America	The Diabetic Foot Volume 97, Issue 5, September 2013, Pages 775-790
7	<p>"Sweat: A sample with limited present applications and promising future in metabolomics" A. Mena-Bravo^{1,2,3}, M.D. Luque de Castro^{1,2,3} ¹Department of Analytical Chemistry, Annex Marie Curie Building, Campus of Rabanales, University of Córdoba, Córdoba, Spain ²University of Córdoba Agroalimentary Excellence Campus, ceiA3, Spain ³Maimónides Institute of Biomedical Research (IMIBIC), Reina Sofía University Hospital, University of Córdoba, E-14071 Córdoba, Spain</p>	Journal of Pharmaceutical and Biomedical Analysis	90(2014) 139 - 147

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8	<p>“New vistas in the diagnosis of diabetic polyneuropathy” Papanas N¹, Ziegler D². ¹Outpatient Clinic of the Diabetic Foot in the Second Department of Internal Medicine at Democritus University of Thrace, Greece ²Deutsches Diabetes-Zentrum, Leibniz-Zentrum für Diabetes-Forschung an der Heinrich-Heine-Universität Düsseldorf, Institut für Klinische Diabetologie, Düsseldorf, Germany</p>	Endocrine	Endocrine, 2014 May 17
9	<p>“Diabetic Sensory and Motor Neuropathy” Aaron I. Vinik, M.D., Ph.D. Strelitz Diabetes Center, Eastern Virginia Medical School, Norfolk, USA</p>	New England Journal of Medicine	n engl j med 374;15 nejm.org April 14, 2016
10	<p>“Assessment of the cardiovascular and gastrointestinal autonomic complications of diabetes” Christina Brock, Anne Grave Pedersen, Asbjørn Mohr Drewes, Adam D Farmer, Mech-Sense, Department of Gastroenterology and Hepatology, Aalborg University Hospital, DK-9000 Aalborg Christina Brock, Department of Pharmacotherapy and Development, University of Copenhagen, DK-2450 Copenhagen Christina Brock, Anne Grave Pedersen, Clinical Biochemistry, Aarhus University, DK-3780 Aarhus Niels Jessen, Department of Clinical Medicine, Aarhus University, DK-3780 Aarhus Adam D Farmer, Department of Gastroenterology, University Hospitals of North Midlands, Staffordshire WS73 JQ, United Kingdom Adam D Farmer, Centre for Digestive Diseases, Wingate Institute of Neurogastroenterology, Blizard Institute, Barts and the London School of Medicine and Dentistry, Queen Mary University of London, London EN1 1NX, United Kingdom</p>	World Journal of Diabetes ESPS Manuscript NO: 25002	2016 Aug 25; (16): 321-32
11	<p>„Alternative Quantitative Tools in the Assessment of Diabetic Peripheral and Autonomic Neuropathy“ A.J. Vinik¹, C. Casellini¹, M.-L.Névoret² ¹Eastern Virginia Medical School, Strelitz Diabetes and Neuroendocrine Center, Norfolk, VA, United States. ²Impeto Medical Inc., San Diego, CA, United States.</p>	International Review of Neurobiology	Volume 127 # 2016 Elsevier Inc. ISSN 0074-7742

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12	<p>“Diabetic peripheral neuropathy: advances in diagnosis and strategies for screening and early intervention” D. Selvarajah, D. Kar, K. Khunti, M.J. Davies, A.R. Scott, J. Walker, S. Tesfaye</p>	The Lancet Diabetes & Endocrinology	Volume 7, issue 12, December 2019, Pages 938 – 948a
13	<p>“Hereditary transthyretin-related amyloidosis” J. Finsterer¹, S. Iglseder², J. Wanschitz³, R. Topadian⁴, W.N. Löscher³, W.Grisold⁵ ¹ Krankenanstalt Rudolfstiftung, Vienna, Austria. ² Konventhospital Barmherzige Brüder, Linz, Austria. ³ Department of Neurology, Medical University Innsbruck, Innsbruck, Austria. ⁴ Department of Neurology, Klinikum Wels-Grieskirchen, Wels, Austria. ⁵ Ludwig Boltzmann Institute for Experimental und Clinical Traumatology, Vienna, Austria.</p>	Acta Neurol Scand.	2019; 139: 92-105
14	<p>“Small-fiber neuropathy: Expanding the clinical pain universe” M. Sopacua¹, J.G.J.Joeijmakers¹, I.S.J. Merkies^{1,2}, G. Lauria^{3,4}, S.G. Waxman^{5,6}, C.G. Faber¹ ¹ Department of Neurology, School of Mental Health and Neuroscience, Maastricht University Medical Centre+, Maastricht, The Netherlands. ² Department of Neurology, St. Elisabeth Hospital, Willemstad, Curaçao. ³ Neuroalgology Unit, IRCCS Foundation, "Carlo Besta" Neurological Institute, Milan, Italy. ⁴ Department of Biomedical and Clinical Sciences "Luigi Sacco", University of Milan, Milan, Italy. ⁵ Department of Neurology, Yale University School of Medicine, New Haven, Connecticut. ⁶ Center for Neuroscience and Regeneration Research, VA Connecticut Healthcare System, West Haven, Connecticut.</p>	J. Peropher Nerv Syst. Peripheral Nerve Society	2019; 24: 19-33

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15	<p>“Emerging Biomarkers, Tools and Treatments for Diabetic Polyneuropathy” G.J. Bonhof¹, C. Herder^{1,2,3}, A. Strom^{1,2}, N. Papanas⁴, M. Roden^{1,2,5}, D. Ziegler^{1,2,5} ¹ Institute for Clinical Diabetology, German Diabetes Center, Leibniz Center for Diabetes Research, Heinrich Heine University Düsseldorf, Düsseldorf, Germany. ² German Center for Diabetes Research, Munich-Neuherberg, Neuherberg, Partner Düsseldorf, Düsseldorf, Germany. ³ Medical Faculty, Heinrich Heine University, Düsseldorf, Germany. ⁴ Second Department of Internal Medicine, Diabetes Center, Diabetic Foot Clinic, Democritus University of Thrace, Alexandroupolis, Greece. ⁵ Division of Endocrinology and Diabetology, Medical Faculty, Heinrich Heine University, Düsseldorf, Germany</p>	Endocrine Reviews	40: 153 – 192, 2019
16	<p>“Recent advances in the diagnosis and management of diabetic neuropathy” Aarti Pokhriyal, Preeti Katiyal, Arun Kumar Department of Pharmacology, School of Pharmaceutical Sciences, Shri Guru Ram Rai University, Patel Nagar, Dehradun, Uttarakhand, India</p>	Indo American Journal of Pharmaceutical Research	2019, ISSN No: 2231-6876
17	<p>“Diagnosing and managing diabetic somatic and autonomic neuropathy” Shazli Asmi¹, Maryam Ferdousi¹, Alise Kalteniece¹, Hamad Al-Muhannadi², Abdulrahman Al-Mohamedi², Nebras H. Hadid², Slah Mahmoud², Harun A. Bhat², Hoda Y.A. Gad², Adnan Khan², Georgios Ponirakis², Ioannis N. Petropoulos², Uazman Alam³, Rayaz A. Malik⁴ ¹ Institute of Cardiovascular Sciences, University of Manchester and Central Manchester NHS Foundation Trust, Manchester, UK. ² Weill Cornell Medicine-Qatar, Qatar Foundation, Doha, Qatar. ³ Department of Eye and Vision Science, University of Liverpool, Liverpool, UK. ⁴ Weill Cornell Medicine-Qatar, Education City, Doha 24144, Qatar.</p>	Ther Adv Endocrinol Metab	2019, Vol. 10: 1-10

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18	<p>“Novel insights into sensorimotor and cardiovascular autonomic neuropathy from recent-onset diabetes and population” C. Herder, M. Roden, D. Ziegler Institute of Clinical Diabetology, German Diabetes Center, Leibniz Center for Diabetes Research at Heinrich Heine University Düsseldorf, 40225 Düsseldorf, Germany; German Center for Diabetes Research (DZD), Partner Düsseldorf, Düsseldorf, Germany; Division of Endocrinology and Diabetology, Medical Faculty, Heinrich Heine University Düsseldorf, Düsseldorf, Germany;</p>	Trends in Endocrinology & Metabolism	Volume 30, issue 5, May 2019, pages 286-298
19	<p>“Diabetic neuropathy collection: Progress in diagnosis and screening” Nikolaos Papanas Advisory Board Member of Diabetes Therapy</p>	Diabetes Ther	(2020) 11:761-764
20	<p>“Instruments of choice for assessment and monitoring diabetic foot: A systematic review” R. Fernández-Torres¹, M. Ruiz-Munoz¹, A.J. Pérez-Panero¹, J. Garcia-Romero², M. González-Sánchez³ ¹ Department of Nursing and Podiatry, Arquitecto Francisco Peñalosa, s/n, Ampliación campus de Teatinos, University of Málaga, 29071 Málaga, Spain. ² Medical School of the Physical Education and Sports, C/ Jiménez Fraud 10, Edificio López de Peñalver, University of Málaga, 29010 Málaga, Spain. ³ Department of Physiotherapy, Arquitecto Francisco Peñalosa, s/n, Ampliación campus de Teatinos, University of Málaga, 29071 Málaga, Spain.</p>	J. Clin. Med.	2020, 9, 602; Doi: 10.3390/jcm9020602
21	<p>“Diabetic peripheral neuropathy in people with type 2 diabetes: too little too late” S. Javed¹, T. Hayat², L. Menon³, U. Alam⁴, R.A. Malik^{1,3} ¹ Division of Cardiovascular Sciences, School of Medical Sciences, University of Manchester, Manchester, UK ² Primary Health Care Corporation, Doha, Qatar ³ Department of Medicine, Weill-Cornell Medicine-Qatar, Doha, Qatar ⁴ Institute of Ageing and Chronic Disease, University of Liverpool, Liverpool, UK</p>	Diabetic Medicine	37, 573-579 (2020)

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1	<p>"Diabetic Neuropathies: Update on Definitions, Diagnostic Criteria, Estimation of Severity, and Treatments"</p> <p>Solomon Tesfaye, Md, Frcp Andrew J.M. Boulton, Md Peter J. Dyck, Md Roy Freeman, Md Michael Horowitz, Md, Phd Peter Kempler, Md, Phd Giuseppe Lauria, Md Rayaz A. Malik, Md Vincenza Spallone, Md, Phd Aaron Vinik, Md, Phd Luciano Bernardi, Md Paul Valensi, Md On behalf of the Toronto Diabetic Neuropathy Expert Group*</p>	Diabetes Care	Diabetes Care 33:2285–2293, 2010
2	<p>"Small Fiber Neuropathy: Role in the diagnosis of Diabetic Sensorimotor Polyneuropathy"</p> <p>Malik R, Veves A, Tesfaye S, Smith G, Cameron N, Zochodne D, Lauria G; On behalf of the Toronto Consensus Panel on Diabetic Neuropathy</p>	Diabetes Metabolism Research and Reviews	Diabetes Metab Res Rev. 2011 Jun 22. doi: 10.1002/dmrr.1222.
3	<p>"Gastrointestinal autonomic neuropathy, erectile-, bladder- and sudomotor dysfunction in patients with diabetes mellitus: clinical impact, assessment, diagnosis, and management."</p> <p>Kempler P, Amarenco G, Freeman R, Frontoni S, Horowitz M, Stevens M, Low P, Pop-Busui R, Tahrani A, Tesfaye S, Várkonyi T, Ziegler D, Valensi P; on behalf of the Toronto Consensus Panel on Diabetic Neuropathy.</p>	Diabetes Metabolism Research and Reviews	Diabetes Metab Res Rev. 2011 Jul 11. doi: 10.1002/dmrr.1223.
4	<p>"A simple new non-invasive sweat indicator test for the diagnosis of diabetic neuropathy"</p> <p>N. Papanas, A. J. M. Boulton, R. A. Malik, C. Manes, O. Schnell, V. Spallone, N. Tentolouris, S. Tesfaye, P. Valensi, D. Ziegler, P. Kempler</p>	Diabetic Medicine	Diabetic Medicine Volume 30, Issue 5, pages 525–534, May 2013
5	Ziegler DDG Praxis Leitlinie Diabetische Neuropathie;	Diabetologie 2012	Diabetologie 2012; 7: S88–S98