This Society began informally in 1990 at Vanderbilt University, Tennessee. Important motive forces for the initial meeting were Dr. David Robertson and Ms. Dorothy Trainor-Kingsbury (Shy-Drager Support Group). The Society was formally established in 1992, and Dr. Robertson became its first president. The broad aim of this Society is to provide a vehicle for investigators and clinicians interested in the autonomic nervous system to interact. It aims to promote research, education, and the academic practice in the autonomic disorders. The Society has escalated in its membership, successfully obtained tax-exempt status, adopted a formal charter, and has its own journal (Clinical Autonomic Research). The Society has an American infrastructure but a strongly international character. Its membership is open to persons of all countries who share the same interests.

In 2014, the American Autonomic Society celebrates its 25th anniversary. The AAS has held annual meetings every year since its inception and broadened the membership to become a truly international Society. Twice, the AAS joined its meeting with the European Federation of Autonomic Societies (EFAS) and will celebrate a second combined meeting with the International Society for Autonomic Neuroscience (ISAN) also including EFAS and the Japan Society of Neurovegetative Research (JSNR) in Italy in 2015. During the past quarter century, the AAS has expanded from less than 50 members in 1992 to 152 members today, focusing on both clinical and basic science, and has taken on a new role in the education of physicians in autonomic disorders. The collegial atmosphere and ongoing collaborative efforts sparked several important discoveries that directly impacted the lives of people with autonomic disorders. Partnerships with support groups have expanded the reach of the AAS into the public eye, while partnerships with industry have culminated in approval of new therapies for people with autonomic disorders. In this 25th anniversary, we express our gratitude for the vision and celebrate the achievements of our founding members and look forward to an AAS that continues to grow in useful service to our community.
<table>
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<tr>
<th>MEETING#</th>
<th>YEAR</th>
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<tr>
<td>1</td>
<td>1990</td>
<td>Nashville, Tennessee</td>
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<td>Honolulu, Hawaii</td>
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<td>Ft. Myers, Florida</td>
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<td>Kohala Coast, the Big Island, Hawaii</td>
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<td>Palm Springs, California</td>
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<td>13</td>
<td>2002</td>
<td>Hilton Head Island, South Carolina</td>
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<td>St. Thomas, U.S. Virgin Islands</td>
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<td>Amsterdam, The Netherlands</td>
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<td>Los Cabos, Mexico</td>
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<td>25</td>
<td>2014</td>
<td>Rio Grande, Puerto Rico</td>
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PRESIDENTS:
1992, 1993  David Robertson, M.D.
1994, 1995  Phillip A. Low, M.D.
1997, 1998  Irwin J. Schatz, M.D.
1999, 2000  Roy Freeman, M.D.
2001, 2002  Felicia Axelrod, M.D.
2005, 2006  Horacio Kaufmann, M.D.
2007, 2008  Italo Biaggioni, M.D.
2009, 2010  Mark Chapleau, Ph.D.
2011, 2012  Michael Joyner, M.D.
2013, 2014  Thomas Chelimsky, M.D.

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P: 952-469-5837 / Fax: 952-469-8424
E: zeller.anita@mayo.edu
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The American Autonomic Society would like to thank the following AAS committee members for their outstanding contributions:

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- Dr. Ronald Leppanen
- Dr. Vera Novak
- Dr. Jens Tank
- Dr. Steven Vernino
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- Dr. Charles Welzig

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THANK YOU FOR ATTENDING THE 25TH INTERNATIONAL SYMPOSIUM ON THE AUTONOMIC NERVOUS SYSTEM.

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education through the joint providership of the Medical College of Wisconsin and American Autonomic Society. The Medical College of Wisconsin is accredited by the ACCME to provide continuing medical education for physicians.

AMA CREDIT DESIGNATION STATEMENT:
The Medical College of Wisconsin designates this Live Activity for a maximum of 17 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

You will be receiving an e-mail from cme@mcw.edu within the next two weeks that will contain a link to complete your CME evaluation and claim credit. The e-mail will be sent to the e-mail address you used to register for this symposium. If you do not receive an e-mail for claiming credit by November 24th, please contact us at cme@mcw.edu.
Red Lily Foundation is dedicated to research, medical education and increasing awareness of POTS and related disorders.

Our mission includes improving physician education to expedite proper diagnosis and treatments, as we support research to find the cure(s) for POTS.

Please visit redlilyfoundation.org to learn about our foundation or contact Sue Miller at smredlily@gmail.com
PROGRAM: WEDNESDAY, NOVEMBER 5, 2014

6:00-7:15 PM REGISTRATION
ROOM: Caribbean Ballroom Foyer

6:30-9:30 PM OPENING RECEPTION (Hosted by Lundbeck)
ROOM: Rio Mar 7-10

7:15-7:30 PM WELCOME
Dr. Thomas Chelimsky: President, American Autonomic Society
ROOM: Rio Mar 7-10

7:30-9:00 PM POSTER SESSION I
ROOM: Rio Mar 7-10

PROGRAM: THURSDAY, NOVEMBER 6, 2014

8:00-8:30 AM CONTINENTAL BREAKFAST
ROOM: Rio Mar 7-10

8:30-9:30 AM PLENARY LECTURE: The neurobiological basis of spontaneous pain in animals and humans.
Jordi Serra, M.D. / LONDON, UNITED KINGDOM
CHAIR: Roy Freeman / ROOM: Caribbean Ballroom 2-3

AUTONOMIC FAILURE: PAF, MSA & PARKINSON’S DISEASE
CHAIRS: Horacio Kaufmann & Christopher Mathias
ROOM: Caribbean Ballroom 2-3


9:45-10:00 AM Survival in synucleinopathies • D.S. Goldstein, C. Holmes, T. Wu / BETHESDA, MD, USA

10:00-10:15 AM Alpha-synuclein and autonomic neuropathy progression in a longitudinal study of Parkinson’s disease • C.H. Gibbons, N. Wang, J. Garcia, R. Freeman / BOSTON, MA, USA

10:15-10:30 AM Clinical laboratory comparison of the parkinsonian and cerebellar forms of multiple system atrophy • D.S. Goldstein, C. Holmes / BETHESDA, MD, USA

10:45-11:00 AM Retinal structure abnormalities as a marker of disease progression in multiple system atrophy • J.-A. Palma, C.E. Mendoza-Santiesteban, J. Martinez, L. Norcliffe-Kaufmann, T.R. Hedges III, H. Kaufmann / NEW YORK, NY, USA

11:00-11:30 AM COFFEE BREAK / ROOM: RIO MAR 7-10

SYMPOSIUM 1 – REGULATION OF CENTRAL BLOOD VOLUME: HYPOVOLEMIA •
CHAIRS: Julian Stewart / ROOM: Caribbean Ballroom 2-3

11:30-12:00 PM Aspects of blood volume control and the normal hemodynamic response to hypovolemia • V. Convertino / JBSA FORT SAM HOUSTON, TX, USA

12:00-12:30 PM Hypovolemic shock • J.J. Van Lieshout / AMSTERDAM, THE NETHERLANDS

12:30-1:00 PM Age, gender and central blood volume • Q. Fu / DALLAS, TX, USA

1:00-1:30 PM Blood volume dysregulation in autonomic disorders • S. Raj / NASHVILLE, TN, USA

1:30-6:00 PM FREE TIME

4:00-5:00 PM CLINICAL AUTONOMIC RESEARCH EDITORIAL BOARD MEETING / ROOM: Boardroom

5:00-6:00 PM TRAINEE SOCIAL / ROOM: Ocean Terrace 2-3

6:00-7:00 PM STREETEN LECTURE: The evolving nature of autonomic medicine in the new millennium—and peering into the mirror of Galadriel. Christopher Mathias, MBBS, DPhil, DSc, FRCP, FMedSci. / LONDON, UK / CHAIR: Phillip Low / ROOM: Caribbean Ballroom 2-3
AWARDS SESSION • CHAIRS: Victoria Claydon & Lucy Norcliffe-Kaufmann
ROOM: Caribbean Ballroom 2-3

7:00-7:15 PM STREETEN TRAVEL FELLOWSHIP AWARD: The role of 17β-estradiol in the RVLM of renovascular hypertensive rats • N.O. Maruyama, C.T. Bergamaschi, R.R. Campos / SÃO PAULO, BRAZIL


7:30-7:45 PM FMS/PENAZ WESSELING AWARD: Sympathetically-mediated low frequency fluctuations in blood pressure occur independent of baroreflex function in autonomic failure • A.C. Arnold, A. Diedrich, L.E. Okamoto, A. Gamboa, S.R. Raj, D. Robertson, C. Shibao, I. Biaggioni / NASHVILLE, TN, USA

7:45-8:00 PM DON SUMMERS MEMORIAL MULTIPLE SYSTEM ATROPHY TRAVEL AWARD: Survival in multiple system atrophy: insights from a large retrospective cohort • E.A. Coon, M.D. Suarez, J.E. Ahlskog, J.N. Mandrekar, P.A. Low, W. Singer / ROCHESTER, MN, USA

8:00-9:30 PM POSTER SESSION II / ROOM: Rio Mar 7-10

9:30-11:00 PM PRESIDENT’S RECEPTION / ROOM: Location to be announced
We will have a late reception with hors d’oeuvres and wine for all attendees to honor our founding members on this 25th year of the AAS, our plenary speakers and all members who worked on committees.

PROGRAM: FRIDAY, NOVEMBER 7, 2014

8:00-8:30 AM CONTINENTAL BREAKFAST / ROOM: Rio Mar 7-10

8:30-9:30 AM PLENARY LECTURE: Prefrontal regulation of the stress response: a neurovisceral integration perspective • Julian Thayer, Ph.D. • COLUMBUS, OH, USA • CHAIR: Thomas Chelimsky / ROOM: Caribbean Ballroom 2-3
MICRONEUROGRAPHY & CARDIOVASCULAR REFLEXES IN HUMANS
CHAIRS: Greg Fink & Vaughan Macefield / ROOM: Caribbean Ballroom 2-3


9:45-10:00 AM Spike rate of multi-unit muscle sympathetic nerve fibers is not reduced after catheter based renal denervation • J. Tank, K. Heusser, J. Brinkmann, B.M. Schmidt, J. Menne, J. Bauersachs, H. Haller, R.J. Brychta, A. Diedrich, J. Jordan / HANNOVER, GERMANY

10:00-10:15 AM Effect of deep brain stimulation on sympathetic outflow in humans • Y.B. Sverrisdóttir, A.L. Green, T.Z. Aziz, N.F.A. Bahuri, J. Hyam, S.D. Basnayake, D.J. Paterson / OXFORD, UK


10:30-10:45 AM Cardiac and sympathetic arterial baroreflex control in patients with type II diabetes mellitus • S.W. Holwerda, L.C. Vianna, C.N. Young, P.J. Fadel / Columbia, MO, USA

10:45-11:00 AM Neurovascular responses to mental stress in aging humans. C.A. Ray, H.E. Ray, C.L. Sauder / HERSHEY, PA, C

11:00-11:30 AM COFFEE BREAK / ROOM: Rio Mar 7-10

11:30-12:00 PM PRESENTATIONS FROM TOP 4 POSTERS
CHAIRS: Qi Fu & Christopher Gibbons / ROOM: Caribbean Ballroom 2-3

POSTURAL ORTHOSTATIC TACHYCARDIA SYNDROME (POTS)
CHAIRS: Qi Fu & Christopher Gibbons / ROOM: Caribbean Ballroom 2-3

12:00-12:15 PM Autoantibodies in the postural tachycardia syndrome • W. Singer, C.J. Klein, P.A. Low, V.A. Lennon / ROCHESTER, MN, USA

12:15-12:30 PM Median arcuate ligament syndrome presenting as hyperadrenergic POTS • H. Abdallah, K. Thammineni / FAIRFAX, VA, USA
12:30-12:45 PM Immunophenotypic profiles in patients with postural orthostatic tachycardia syndrome • H. Abdallah, M. Plassmeyer, M. Ryherd, L. Austin, R. Limgala, M. Brown, O. Alpan / FAIRFAX, VA, USA

12:45-1:00 PM The relation of oscillatory cerebral blood flow to neurovascular coupling in POTS • J.M. Stewart, A. Del Pozzi, M.S. Medow / HAWTHORNE, NY, USA

1:00-1:15 PM Open label use of carbidopa for treatment of hyperadrenergic symptoms • S. Vernino / DALLAS, TX, USA

1:15-1:30 PM Joint hypermobility syndromes and postural orthostatic tachycardia: the missing link • A.S. Bathia, C. Urrea, C.A. Morillo, J.C. Guzman / HAMILTON, ON, CANADA

1:30-7:00 PM FREE TIME

1:30-3:30 PM AAS BOARD MEETING / ROOM: Boardroom

5:30-6:30 PM AAS COMMITTEE MEETINGS / ROOM: Ocean Terrace 2-3

7:00-10:00 PM PRESIDENTIAL DINNER / LOCATION: Marbella Garden

PROGRAM: SATURDAY, NOVEMBER 8, 2014

8:00-8:30 AM CONTINENTAL BREAKFAST / ROOM: Rio Mar 7-10

8:30-9:00 AM AAS BUSINESS MEETING / ROOM: Caribbean Ballroom 2-3


9:00-9:25 AM A heart cannot pump blood that it does not receive • W. Wieling / AMSTERDAM, THE NETHERLANDS

9:25-9:50 AM Return to driving and work after syncope – risks and implications • F. Barbic / MILAN, ITALY

9:50-10:15 AM Case presentations • D. Jardine / CHRISTCHURCH, NEW ZEALAND

10:15-10:40 AM Case presentations • C. Gibbons / BOSTON, MA, USA

10:40-11:05 AM Case presentations • R. Bhavaraju-Sanka / SAN ANTONIO, TX, USA
11:00-11:30 AM COFFEE BREAK / ROOM: Rio Mar 7-10

CARDIOVASCULAR DISEASE, OBESITY & AGING
CHAIRS: David Robertson & Cyndya Shibao / ROOM: Caribbean Ballroom 2-3

11:30-11:45 AM Are there sustainable effects of menopausal hormone therapy on cerebrovascular reactivity in women? • J.N. Barnes, R.E. Harvey, S.M. Kruse, M.J. Joyner, V.M. Miller / ROCHESTER, MN, USA

11:45-12:00 PM Autonomic imbalance in takotsubo cardiomyopathy • L. Norcliffe-Kaufmann, H. Kaufmann, J. Martinez, S.D. Katz, L. Tully, H.R. Reynolds / NEW YORK, NY, USA

12:00-12:15 PM Autonomic blockade unmasked increased blood pressure regulation by nitric oxide in obese African American women • C. Shibao, A. Gamboa, J.E. Celedonio, A.C. Arnold, A. Diedrich, I. Biaggioni / NASHVILLE, TN, USA

12:15-12:30 PM Muscle sympathetic nerve activity in women with uterine fibroids • R.E. Harvey, S.K. Laughlin-Tommaso, E.A. Stewart, T.B. Curry, M.J. Joyner, J.N. Barnes / ROCHESTER, MN, USA

12:30-12:45 PM Sympathetic contribution to blood pressure elevation in obesity: hemodynamic mechanisms in prehypertensives and hypertensives • L.E. Okamoto, A. Gamboa, C. Shibao, A.C. Arnold, J.E. Celedonio, A. Diedrich, G. Farley, S. Paranjape, I. Biaggioni / NASHVILLE, TN, USA

12:45-1:00 PM Developmental PBDE exposure systolic increases blood pressure and hypothalamic-pituitary-adrenal axis activity in osmotic challenged rats • K. Spurgin, R. Gutierrez, A. Prien, M. Curras-Collazo / RIVERSIDE, CA, USA

1:00-1:15 PM CLOSING REMARKS • Dr. Thomas Chelimsky
POSTER SESSION I: WEDNESDAY, NOVEMBER 5, 2014

7:30-9:00 PM ROOM: Rio Mar 7-10

MICRONEUROGRAPHY & CARDIOVASCULAR REFLEXES IN HUMANS


POSTER #2 Regional cerebral cortical thickness correlates of autonomic outflow • J.K. Shoemaker, K.N. Norton, J.R. Baker, A. Heineke / LONDON, ON, CANADA

POSTER #3 Sex differences in dietary sodium-induced increases in systolic BP variability: a role for serum sodium • M.M. Wenner, M.S. Brian, E. Matthews, S.D. Stocker, W.B. Farquhar / NEWARK, DE, USA

POSTER #4 Women with a history of hypertensive disorders during pregnancy have augmented sympathetic neural and cardiovascular responses during static handgrip exercise • Q. Fu, A.S.L. Stickford, S.A. Best, Y. Okada, S.S. Jarvis, R.S. Parker, M.A. Roberts, B.D. Levine / DALLAS, TX, USA

POSTER #5 Peroneal nerve activity related to sensory symptoms in restless legs syndrome (RLS): a case report on the urge to move • J.A. Taylor, S. Bertisch, J.W. Hamner, J.W. Winkelman / BOSTON, MA, USA

CEREBRAL BLOOD FLOW REGULATION

POSTER #6 Cerebral blood flow velocity responses to physical and mental stress • C.E. Taylor, J. Kusel, T. Witter, T. O’Donnell, Y.C. Tzeng / SYDNEY, AUSTRALIA

POSTER #7 Cerebral blood flow measurement during HUTT: clinical utility and implications for children and young adults • M.T. Numan, A. Gourishankar, R. Martinez, J. Lankford, I. Butler / HOUSTON, TX, USA

POSTER #8 Reduced vestibular function in veterans is associated with worse cerebral autoregulation • J.M. Serrador, Y. Haber, A. Acosta, B. Ghobreal, M. Blatt / EAST ORANGE, NJ, USA

POSTER #9 Increases in sympathetic activity during cold pressor test does not cause cerebral vasoconstriction • J.M. Serrador, M. Blatt, B. Ghobreal, M. Falvo / EAST ORANGE, NJ, USA
Cerebral blood flow (CBF) assessment for patients with convulsions during HUTT • A. Gourishankar, E. Ali, J. Lankford, I.J. Butler, M. Numan / HOUSTON, TX, USA

Cerebrovascular responses during autonomic dysreflexia in individuals with spinal cord injury • I.S. Sahota, H.J.C. Ravensbergen, J.A. Inskip, M.S. McGrath, V.E. Claydon / BURNABY, BC, CANADA

CARDIOVASCULAR DISEASE, OBESITY & AGING: HUMAN STUDIES

Orthostatic hypotension, frailty and falling risk in elderly care home residents • K. Sabbaghan, B.H. Shaw, Y. Yang, S.N. Robinovitch, V.E. Claydon / BURNABY, BC, CANADA


Autonomic and hemodynamic parameters in active African American and Caucasian women • P. Latchman, G. Gates, R. Axtell, R. Thiel, N. Stachenfeld, R. De Meersman / NEW HAVEN, CT, USA

Essential nutrient depletion in obstructive sleep apnea: autonomic consequences • R.M. Harper, R. Kumar, R.K. Harper, F. Yan-Go, D. Kang / LOS ANGELES, CA, USA

DIABETIC, AUTOIMMUNE & OTHER AUTONOMIC NEUROPATHIES

Hyperinsulinemia and insulin resistance in dopamine β hydroxylase deficiency • C. Shibao, E.M. Garland, J.M. Luther, J.E. Celedonio, S.R. Raj, I. Biaggioni, D. Robertson / NASHVILLE, TN, USA

Alpha lipoic acid (ALA) and diabetic neuropathy (DN): measuring therapeutic benefit objectively • A.I. Vinik, M.-L. Nevoret, M.E. Bourcier / SAN DIEGO, CA, USA

Structural and functional measures in a human model of small fiber neuropathy • B.M. Illigens, R. Freeman, C.H. Gibbons / BOSTON, MA, USA

The autonomic and small fiber implications of treatment induced neuropathy of diabetes • C.H. Gibbons, R. Freeman / BOSTON, MA, USA
POSTER #20 Autonomic dysfunction in stiff person syndrome (SPS): observations in 8 cases • A. Barboi / CHICAGO, IL, USA

POSTER #21 A comparison of the progression of autonomic dysfunction in diabetic patients compared to other etiologies • J.L. Gilden, C. Prades, S. Paturi, I. Worden, C. Xiang, B. Theckedath, I.J. Stoll, R. Trotta. / NORTH CHICAGO, IL, USA

POSTER #22 Prolonged QTc interval in patients seropositive for ganglionic (α-3) acetylcholine receptor autoantibody • W.P. Cheshire, K.L. Venkatachalam, M.H. Yamani, V.A. Lennon / JACKSONVILLE, FL, USA

AUTONOMIC FAILURE: PAF, MSA & PARKINSON’S DISEASE

POSTER #23 Investigation of early symptoms in multiple system atrophy • W.P. Cheshire / JACKSONVILLE, FL, USA

POSTER #24 The role of physical therapy in dysautonomia - patient survey • R.E. Martinez, I.J. Butler, M.T. Numan / HOUSTON, TX, USA


POSTER #26 Electrochemical skin conductance in autonomic synucleinopathies • J. Martinez, J.-A. Palma, L. Percival, H. Kaufmann / NEW YORK, NY, USA

POSTER #27 Catecholamine autotoxicity. Implications for pharmacology and therapeutics of Lewy body diseases • D.S. Goldstein, I.J. Kopin, Y. Sharabi / BETHESDA, MD, USA

POSTER #28 Initial diagnosis of pure autonomic failure (PAF). Follow up of Chilean patients • J. Idiaquez, O. Trujillo, J.F. Idiaquez, R. Fadic / VALPARAÍSO, CHILE

POSTER #29 GLOMSAR: a global multiple system atrophy registry • F. Krismer, L. Norcliffe-Kaufmann, J.-A. Palma, I. Biaggioni, H. Kaufmann, and G.K. Wenning on behalf of the European MSA Study Group and Autonomic Disorders Consortium / NEW YORK, NY, USA
PEDIATRIC AUTONOMIC DISORDERS

POSTER #30 Lack of an osmopressor response linked to hyponatremia • L. Norcliffe-Kaufmann, C. Fuente Mora, H. Kaufmann / NEW YORK, NY, USA

POSTER #31 Urologic symptoms in pediatric patients with postural orthostatic tachycardia syndrome • M.E. Rivera, S.A. Kimmes, A.B. Strand, P.R. Fischer, C.F. Granberg / ROCHESTER, MN, USA

POSTER #32 How helpful is the Valsalva maneuver in predicting abnormal tilt test results in children? • G. Chelimsky, T. Prieto, C. Welzig, P. Simpson, T. Chelimsky / MILWAUKEE, WI, USA

POSTER #33 Near-infrared spectroscopy in pediatric orthostatic disorders G. Chelimsky, B. Quirk, C. Welzig, T. Chelimsky, T. Prieto, A. Mueller, J. Figueroa, D. Wallner, H. Whelan / MILWAUKEE, WI, USA

ORTHOSTATIC HYPOTENSION AND AND SYNCPE

POSTER #34 Falls during a 10-week placebo-controlled study of droxidopa for neurogenic orthostatic hypotension in Parkinson’s disease • G. Rowse, S. Heritier, L.A. Hewitt / CHARLOTTE, NC, USA

POSTER #35 Recurrent syncope in a wrestler • R.K. Khurana / BALTIMORE, MD, USA

POSTER #36 Do duration and lateralization of ictal asystole predict ictal syncope? • M.T. Bestawros, A. Arain, B. Abou-Khalil, D. Darbar, S.R. Raj / NASHVILLE, TN, USA

POSTER #37 Integrated efficacy and safety analyses of droxidopa for symptomatic neurogenic orthostatic hypotension • R.A. Hauser, C.B.N. Szakacs, H. Kaufmann / NEW YORK, NY, USA

LATE-BREAKING ABSTRACTS

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POSTER #LB5 Beighton score and delta heart rate correlation in patients with Ehlers Danlos Syndrome (EDS) and postural orthostatic tachycardia syndrome (POTS) • C. Ashangari, A. Suleman / MCKINNEY, TX, USA

POSTER #LB6 Exercise capacity in postural orthostatic tachycardia syndrome (POTS) patients through six minute walk test and its correlation with delta heart rate from tilt table test • C. Ashangari, A. Suleman / MCKINNEY, TX, USA

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POSTER #LB8 Neuropathological interactions in the rostral ventrolateral medulla in MSA • E.E. Benarroch, A.M. Schmeichel, P.A. Low / ROCHESTER, MN, USA

POSTER SESSION II: THURSDAY, NOVEMBER 6, 2014

8:00-9:30 PM ROOM: Rio Mar 7-10

AUTONOMIC REGULATION: BASIC SCIENCE & ANIMAL STUDIES

POSTER #38 Does renal denervation restore nNOS in the paraventricular nucleus and thus attenuate the enhanced activation of the PVN in heart failure? • K.P. Patel, X. Liu, H. Zheng / OMAHA, NE, USA

POSTER #39 Does psychosocial stress exacerbate disease outcome in sarcoglycan delta deficient mice with muscular dystrophy? • R. Sabharwal, M.W. Chapleau / IOWA CITY, IA, USA

POSTER #40 WITHDRAWN

POSTER #41 The carotid body as a therapeutic target in congestive heart failure • H.D. Schultz, N.J. Marcus, R. Del Rio / OMAHA, NE, USA
**POSTER #42** The role of epidermal sensory and sweat gland nerve fiber density evaluation as a part of autonomic testing • **P. Vora, E. Budman, A. Tunguturi, B. Sundar, L. Qin, P. Ravin, P. Novak / WORCESTER, MA, USA**

**NOVEL THERAPIES & CLINICAL TRIALS**

**POSTER #43** Effect of statins upon small fibers • **A. Tunguturi, E. Budman, B. Sundar, L. Qin, M. Moonis, P. Ravin, P. Novak / WORCESTER, MA, USA**

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**POSTER #45** Autonomic function tests may predict prolonged heart rate slowing upon Fingolimod in multiple sclerosis patients • **M.J. Hilz, T. Intravooth, S. Moeller, S. Schwab, D.H. Lee, R.A. Linker, J. Koehn / ERLANGEN, GERMANY**

**AUTONOMIC TESTING**

**POSTER #46** Quantitative Sudomotor Axon Reflex Test using QSWEAT™ – normative values • **D.M. Sletten, A. Grandinetti, S.D. Weigand, T.L. Gehrking, J.A. Gehrking, P.A. Low, W. Singer / ROCHESTER, MN, USA**

**POSTER #47** Differences in sweat volume between African Americans and Caucasians • **A.C. Peltier / NASHVILLE, TN, USA**

**POSTER #48** QSART and the thermoregulatory sweat test in the evaluation of POTS, small fiber neuropathy, and orthostatic lightheadedness • **R.W. Shields, Jr. / CLEVELAND, OH, USA**

**POSTURAL ORTHOSTATIC TACHYCARDIA SYNDROME (POTS)**


**POSTER #50** Relationship between mitochondrial dysfunction and the postural orthostatic tachycardia syndrome • **L. Phillips, Q. Fu, B. Levine, R. Haller / DALLAS, TX, USA**

**POSTER #51** Propranolol decreases tachycardia but does not improve orthostatic reduction of cerebral blood flow in the postural orthostatic tachycardia syndrome • **S.J. Yeh, C.W. Su, C.C. Chiu / TAICHUNG, TAIWAN**
TRAINEE POSTER AWARD SESSION
JUDGES: Italo Biaggioni, Mark Chapleau, Victoria Claydon, Greg Fink, Roy Freeman, Chris Gibbons, David Goldstein, Horacio Kaufmann, Phillip Low, Vaughan Macefield, Lucy Norcliffe-Kaufmann, David Robertson, Jens Tank, Wouter Wieling

POSTER #52 Excessive nocturnal blood pressure dipping is associated with renal injury • C. Fuente Mora, L. Norcliffe-Kaufmann, A. Infante, L. Percival, L. Lugg, H. Trachtman, H. Kaufmann / NEW YORK, NY, USA

POSTER #53 A chewing-gum pressor response? • C. Fuente Mora, L. Norcliffe-Kaufmann, H. Kaufmann / NEW YORK, NY, USA


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POSTER #56 The effect of healthy ageing on muscle sympathetic nerve activity during heat stress • D. Gagnon, Z.J. Schlader, C.G. Crandall / DALLAS, TX, USA

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POSTER #58 Clinical “type” of vasovagal syncope does not predict the hemodynamic pattern of presyncope induced by head-up tilt (HUT) • S. Balegh, J. Luhoway, K. Groper, H.T.M. Nguyen, J. Benoit, B. Ditto, R. Schondorf / MONTREAL, QC, CANADA

POSTER #59 Delayed orthostatic hypotension variants • P.K. Jones, J. Marotta, C.H. Gibbons, R. Freeman / BOSTON, MA, USA

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POSTER #61 Relationship between COMPASS 31 and nausea profile and gastrointestinal symptoms during head-up tilt table testing in pediatric patients • M.K. Boruta, R.J. Boruta, S.E. Tarbell, K.K. Collins, J.E. Fortunato / AURORA, CO, USA

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