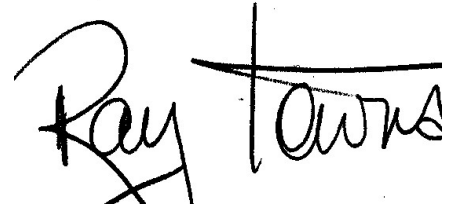


UNIVERSITY OF PENNSYLVANIA - SCHOOL OF MEDICINE
Curriculum Vitae

Mar 05 2021



Raymond R. Townsend, MD, FAHA, FASH

Education: 1971-75 B.A. LaSalle College (Biology)
1975-79 M.D. Hahnemann University

Postgraduate Training and Fellowship Appointments:

1979-82 Internal Medicine Residency
Allegheny General Hospital
Pittsburgh, PA3333

1981-82 Chief Resident Internal Medicine
Allegheny General Hospital
Pittsburgh, PA

1982-84 Fellowship in Nephrology
Temple University Hospital
Philadelphia, PA

Military Service: None

Faculty Appointments:

1982-84 Instructor in Medicine
Temple University Hospital
Philadelphia, PA

1984-1988 Associate Attending Nephrologist
Allegheny General Hospital
Pittsburgh, PA

1986-88 Clinical Associate Professor of Epidemiology
Graduate School of Public Health
Dept. of Epidemiology
University of Pittsburgh
Pittsburgh, PA

1988-93 Assistant Professor of Medicine
Director, Hypertension Clinic
Department of Internal Medicine
University of Texas Medical Branch
Galveston, TX

1993- Assistant Professor of Medicine
Director Hypertension Section
Department of Internal Medicine-Renal
University of Pennsylvania
Philadelphia, PA

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|-------|---|
| 1996- | Associate Professor of Medicine
Director Hypertension Section
Department of Internal Medicine-Renal
University of Pennsylvania
Philadelphia, PA |
| 2001- | Professor of Medicine
Director Hypertension Section
Department of Internal Medicine-Renal
University of Pennsylvania
Philadelphia, PA |

Hospital and Administrative Appointments:

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| 1993-1994 | Interim Associate Director
General Clinical Research Center |
| 1993- | Director, Hypertension Program, University of Pennsylvania
School of Medicine |
| 2001- | Associate Director General Clinical Research Center (GCRC)
(2006 – Name change: Clinical & Translational
Science Center: CTSC)
(2016 – Name change: Center for Human Phenomic
Science: CHPS) |

Specialty Certification:

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| 1982 | American Board of Internal Medicine |
| 1984 | Nephrology |
| 1993 | Clinical Pharmacology |
| 1998 | Specialist in Hypertension (renewed 2008) |

Licensure:

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| 1981- | Medical Physician and Surgeon Pennsylvania
MD 024794-E |
| 1988-200 | Medical Physician and Surgeon Texas
H5079 |

Awards, Honors and Membership in Honorary Societies:

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| 1984 | Travel Grant (\$400) American Heart Association |
| 1993 | Elected to "Fellow" ('FAHA') in the Council for High Blood
Pressure Research (American Heart Association) |
| 1996 | Donald B. Martin Teaching Award from Housestaff of the
University of Pennsylvania (Penn) |
| 2001 | Outstanding Lecturer Award from the Medical Student Class
of 2002 (Penn) |
| 2001 | Russell T. Elkinton Teaching Award from Renal Fellows
(Penn) |
| 2010 | Charlie Mayo Lecture, Mayo Clinic, Rochester, MN |

2013	Muirhead Lecture, University of Tennessee, Memphis, TN
2014	Ava Barger Lecture, University of Rochester, Rochester, NY
2015	Austin Lecture, Baylor University, Dallas, TX
2016	Heldrich Lecture, Robert Wood Johnson University, New Brunswick, NJ
2016	American Heart Association Physician of the Year
2017	Shaul G. Massry Lecture, National Kidney Foundation
2018	Hoobler Lecture, University of Michigan/Ann Arbor

Membership in Professional and Scientific Societies:

National Societies:

1971	Pennsylvania National Honor Society
1975-79	American Medical Student Association
1979-	Associate, American College of Physicians
1985-	International Society of Nephrology
1986-	American Heart Association (AHA)
1986-	Council on Hypertension (AHA; Fellow)
1986-	American Society of Nephrology
1986-	Local American Heart Association
1987 -	American Society of Hypertension (Fellow; VP 2014-2016)
1988-1995	American Federation for Clinical Research (AFCR)
2011-	North American Artery Society

Local Societies:

1988	Houston/Gulf Coast Hypertension Club
1990	Houston/Gulf Coast Nephrology Association
1990	Southwest Regional Kidney Foundation
1995	Delaware Valley Hypertension Club

Editorial Positions:

1999 -	Editorial Board, Journal of Clinical Hypertension)
2000-2005	Associate Editor, Annals of Internal Medicine (Renal/Hypertension)
2007-2014	Nephrology Self-Assessment Program (Author, Deputy Editor)
2012-	Editorial Board: Artery Research (Official Journal of the Artery Society)
2014-	Editorial Board: Pulse (Official Journal of the Pulse of Asia)
2015-	Editorial Board: Journal of the American Society of Hypertension (Official Journal of the ASH)

Committee Service:

Institutional Review Board

1990-1993	University of Texas Medical Branch (UT Galveston)
1995 – Now	University of Pennsylvania

Resident Competency Committee

1986-1988	Allegheny General Hospital
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Professional Education

2000-2003	Publications and Communications Committee of the American Society of Hypertension
2008-2010	Professional Education Committee of the American Heart Association (National)
2010-2012	Chair, AHA Council for High Blood Pressure Research Professional Education and Publications Committee
2012-	AHA Council on Hypertension (the name changed) Professional Education and Publications Committee
2017-	American Society of Nephrology Career Advancement Committee

Principal Investigator of Grants:

INACTIVE GRANTS:

Adrenergic Regulation of Lipolysis, UTMB Small Grant Program, 1991-92, \$12,500.

Effects of Angiotensin-II on Insulin-mediated Lipolysis in Normal and Hypertensive Humans, American Heart Association, Texas Affiliate, 92G-620, 1992-1994, \$70,000.

Metabolic Effects of Antihypertensive Drug Therapy, Univ. PA Research Foundation, 1/1/94 - 12/31/94, \$5,000.

Salt Intake, Plasma Renin, and Insulin Sensitivity, Univ. PA Research Foundation, 6/1/94 - 5/31/95, \$13,500.

Dietary Salt Intake & the Metabolic Effects of Insulin, NIH-NIDDK, 1K24DK02684
7/01/99 - 6/30/04, \$495,735 (Direct Costs).

Vagal Control of Insulin Release in Humans, NIH-NIDDK RO1-DK58003-04, PI is Karen Teff, PhD, RR Townsend is Consultant at 20% Effort Award dates 4/01/00 - 3/31/05

Cardiovascular Effects of Iyengar Yoga. NIH-AT, R21-AT-002353. P.I. RR Townsend 25% Effort. Award dates September 2004 – July 2007.

Pulse Wave Velocity in Chronic Kidney Disease, R01 DK067390. P.I. RR Townsend 2.40 calendar months. Award dates June 2005 – July 2015.

Exercise and Vascular Function in Chronic Kidney Disease, R01-HL113514-01A1 P.I. Edwards 0.6 calendar months. Award dates September 2012 – August 2015

ACTIVE GRANTS:

U01-DK060984 (Townsend) 09/01/18 – 06/30/23
NIH/NIDDK

Prospective Renal Insufficiency Cohort Evaluation: PRICE

The goal of this project is to evaluate traditional and non-traditional factors contributing to CKD progression.

Role: PI

UL1-TR001878 (Fitzgerald) 07/01/16 – 05/31/21
NIH/NCATS

Institutional Clinical and Translational Science Award

The major goals of this project are to foster the development of Translational Therapeutics and bridge the artificial divide between pediatric and adult physiology and disease.

Role: Associate Director

R01-DK101500 (Navaneethan) 09/22/14 - 07/31/19

NIH/NIDDK

Visceral Adiposity and Physical Fitness in CKD

This ancillary study proposal to the parent CRIC study provides a unique opportunity to study critical objectives related to obesity and fat distribution, and physical fitness and endurance. The data generated will bridge the knowledge gap between obesity, physical fitness, and morbidity/mortality associated with CKD, and will help explain the obesity paradox. Moreover, the proposal has the potential to identify mechanistic pathways and targets for treatment in those with CKD.

Role: Consortium PI

DP3-DK108220 (Susztak)

09/25/15 - 08/31/19

NIH/NIDDK

Epigenetic drivers and biomarkers of diabetic kidney disease

Under this proposal we plan to characterize genome-wide cytosine methylation patterns in 800 microdissected human kidney TEC; including controls (in absence of diabetes, hypertension and normal kidney function), patients with diabetes or hypertension and absence of renal disease and patients with CKD in the setting of hypertension and compare them to DKD samples, define the contribution of cytosine methylation changes to phenotype development and define the association between cytosine methylation and gene expression changes using novel statistical methods. Lastly, to understand whether cytosine methylation changes can be used to predict GFR course in the CRIC cohort, by comparing cytosine.

Role: Co-Investigator

R01-DK110087 (Isakova)

09/20/16 – 06/30/21

NIH/NIDDK/Northwestern

Novel Diagnostics and Therapeutic Targets for Calcification in CKD

This project evaluates mechanisms of vascular calcification and their role in renal disease progression. My particular role in this project involves assisting in the analysis and interpretation of the Aim related to arterial stiffness.

Role: Co-Investigator

R01-DK107566 (Anderson)

09/20/16 - 06/30/18

NIH/NIDDK

The Gut Microbiome and the Metabolome in Chronic Kidney Disease

Our overall study goal of investigating the role of the gut microbiota and gut-derived metabolites in altering the risk of major clinical outcomes associated with CKD will be accomplished using a longitudinal prospective cohort within the Chronic Renal Insufficiency Cohort (CRIC) Study, and a small additional population of CKD patients.

Role: Co-Investigator

P01-HL094307 (Pack)

05/01/16 – 04/30/21

NIH/NHLBI

Individual Differences in Obstructive Sleep Apnea

Sleep apnea is heritable, although to date no convincing gene variants have been identified. There are also important individual differences in consequences with some individuals, even with severe disease, not having adverse outcomes. These individual differences in risk and in consequences suggest that sleep apnea is an ideal disorder to develop a PERSONALIZED approach to risk assessment, diagnosis and management. It is this overall concept that motivates this program of research.

Role: Co-Investigator Project 2

17 MERIT33560013 (Fitzgerald)

07/01/17 - 06/30/22

American Heart Association (

Non-dipping Hypertension and the Human Chronobiome

A study of mechanisms underlying non-dipping hypertension and potential approaches to treatment

Role: Co-Investigator

R01-HL136679 (Drawz)

07/01/17 - 06/30/22

University of Minnesota/NHLBI

Blood Pressure and Kidney Function – SPRINT vs Electronic Health Record Data

The goal of the proposed study is to link EHR data with SPRINT; doing so will provide a unique opportunity to evaluate the concordance between EHR and research based BP as well as the effect of intensive versus standard BP targets on AKI and other renal and cardiovascular outcomes. The proposed study will also assess the concordance between clinic and research based BP at the screening visit and then starting with the 6-month study visit. Results will inform implementation of SPRINT results in routine clinical practice.

Role: Consortium PI

R21-DK114213 (Hsu) 08/02/17 – 07/31/19
NIDDK/UCSF

A pilot trial of targeting out-of-dialysis unit vs. dialysis-unit blood pressure

This pilot trial will be a key intermediate step to help design a large, multi-center clinical trial to test whether targeting out-of-dialysis-unit (home) SBP vs. dialysis-unit (pre-dialysis) SBP among maintenance HD patients will reduce rates of CVD events and mortality in maintenance HD patients. Data from this study will be to test study logistics, optimize the study intervention, identify barriers and facilitators of implementation and obtain empirical estimates of study parameters to help design the definitive clinical trial.

Role: Consortium PI

TRIDENT (Susztak) 12/01/16 - 11/30/19
(GSK, Regeneron and Boehringer Ingelheim)

Research in Diabetic Nephrology

This is a prospective, observational, cohort study of patients with a clinical diagnosis of diabetes who are undergoing clinically indicated kidney biopsy. The intent is to collect, process, and study kidney tissue and to harvest blood, urine and genetic materials to elucidate molecular pathways and link them to biomarkers that characterize those patients have a rapid decline in kidney function.

Role: Co-Investigator

R01-DK111392 (Shea) 02/01/17 – 01/31/20
NIH/NIDDK/Tufts

Vitamin K Status, CVD and Arterial Stiffness in Chronic Kidney Disease

The proposed research is relevant to public health and NIDDK's mission to conduct research in kidney disease to improve people's quality of life. A better understanding vitamin K's role in cardiovascular disease and chronic kidney disease (CKD) progression in patients with CKD offers a potentially important, novel, and low- cost intervention for a high-risk patient population and may eventually lead to new treatment strategies

Role: Co-Investigator

R01-HL121510 (Chirinos) 09/11/15 – 06/30/20
NIH/NHLBI

Efficacy of Potassium Nitrate in Heart Failure with Preserved Ejection Fraction

This randomized double-blinded cross-over trial will enroll 76 patients with HFpEF to test the hypothesis that potassium nitrate will improve exercise capacity, quality of life and key physiologic adaptations to exercise in HFpEF, including: vasodilatory reserve, the vasodilatory reserve in exercising muscle, LV systolic and diastolic function, muscle oxidative capacity and late systolic left ventricular afterload, which induces LV diastolic dysfunction and remodeling.

Role: Co-Investigator

R01-DK114014 (Hsu) 07/01/18 – 06/30/22
NIH/NIDDK/UCSF

Acute kidney injury among patients with chronic kidney disease

We propose to systemically track and quantify the severity of hospitalized acute kidney injury (AKI) in a rigorously phenotyped prospective cohort of adults with chronic kidney disease (CKD). Compared with all the other studies based on observational data now published in the literature, ours will have a much more rigorous experimental design, greatly reducing residual confounding and other biases. Our findings may challenge the current reigning paradigm that mild to moderate episodes of AKI worsen the course/outcome of CKD.

Role: Co-Investigator

CITIZENSHIP

Academic Committees at the University of Pennsylvania:

1993-94 General Clinical Research Center Science Review Committee

2000- General Clinical Research Center Science Review Committee

Major Teaching and Clinical Responsibilities for the University of Pennsylvania:

Hypertension component, Renal Physiology Course (1st year students) 1 hour lecture
Drug Treatment of Hypertension, Pharmacology 570, post-doc pharmacology students 1 hour
Diuretics, Second year Dental School students, 2 hours
Frontiers, 4th year Medical School students, 1 hour
Physiology of the Kidney, Pharmacology 570, post-doc pharmacology students 1 hour
Hypertension Clinic 1/2 day week / 2 x month

Journal Editorial Board Member

Annals of Internal Medicine (2000 - 2005)
Journal of Clinical Hypertension (2000 -)
Nephrology Self Assessment Program (7/2010 – 6/2013) ‘NephSAP’
Artery Research (2011 -)

Journal Reviewer:

Advances in CKD (NKF)
American Journal of Hypertension (AJH)
American Journal of Kidney Disease
American Journal of Nephrology
Annals of Internal Medicine
Archives of Internal Medicine
Blood Pressure Monitoring Journal
Clinical Journal of the American Society of Nephrology (CJASN)
Clinical Nephrology
Diabetes
Hypertension
Journal of the American Medical Association (JAMA)
Journal of the American Society of Nephrology (JASN)
Journal of the American College of Cardiology (JACC)
Journal of Clinical Hypertension
Journal of American Society of Hypertension (JASH)

Journal of Dairy Science
Journal of Human Hypertension
Kidney International
Metabolism
Nephrology Dialysis & Transplantation
Nephron
NephSAP
New England Journal of Medicine

BIBLIOGRAPHY:

Complete List of Published Work in MyBibliography:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/raymond.townsend.1/bibliography/43796351/public/?sort=date&direction=ascending>

Original Papers:

Townsend R, Glassburn J, Brady L, Rowland J. Whole Abdomen Irradiation for Carcinoma of the Ovary. *Cancer Clinical Trials* 1979;2:351-358.

Townsend R, Fragola J. Hydrothorax in a CAPD Patient. *Archives of Internal Medicine* 1982;142:1571-1572.

DiPette D, **Townsend R**, Guntupalli J, Simpson K, Rogers A, Bourke E. Effects of Calcium Antagonists on Vasopressin Induced Changes in Myocardial and Renal Pyridine Nucleotides in the Intact Rat. *Advances in Experimental Medicine and Biology* 1986;199:503-517.

Dianzumba S, DiPette D, Joyner C, **Townsend R**, Weber E, Mauro K, Cornman C. Left Ventricular Function in Mild Hypertension Following Adrenergic Blockade. *Hypertension* 1988;11(suppl I):I-98-I-102.

DiPette DJ, **Townsend RR**. Lipids: Predictor Factor for Outcome. *International Proceedings Journal* 1989;1(2):15-22.

Dianzumba SB, DiPette DJ, Joyner CR, Cornman C, **Townsend R**, Mauro K, Weber E, Theobald T, **Townsend RR**. Left Ventricular Filling in Hypertensive Blacks and Whites Following Adrenergic Blockade. *American Journal of Hypertension* 1990;3:48-51.

Wallin J, Fletcher E, Ram C, Cook M, Cheung D, MacCarthy E, **Townsend R**, et al. Intravenous Nicardipine for the Treatment of Severe Hypertension. *Archives of Internal Medicine* 1988;149:2662-2669.

Townsend RR, Holland OB. Combination of Converting Enzyme Inhibitor with Diuretic for the Treatment of Hypertension. *Archives of Internal Medicine* 1990;150:1175-1183. PMID: 2191634

Townsend RR, DiPette DJ, Goodman R, Blumfield D, Cronin R, Gradman A, Katz LA, McCarthy EP, Sopko G. Efficacy of Combined α/β Blockade Compared to β_1 Selective Blockade in Black and White Essential Hypertension. *Clinical Pharmacology and Therapeutics* 1990;48:665-675.

PMID: 2249378

Townsend RR, DiPette DJ, Evans RR, Davis WR, Green A, Graham GA, Wallace JM, Holland OB. Effects of Calcium Channel Blockade on Calcium Homeostasis in Mild to Moderate Essential Hypertension. *The American Journal of the Medical Sciences* 1990;299:133-137. PMID: 2240002

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Wright JT, Jr, DiPette DJ, Goodman RP, **Townsend RR**, McKenney JM: Renin profile, race, and antihypertensive efficacy with atenolol and labetalol. *Journal of Human Hypertension* 1991;5:193-198. PMID: 1920342

The Treatment of Mild Hypertension Research Group. The Treatment of Mild Hypertension Study. *Archives of Internal Medicine* 1991;151:1413-1423.

Townsend RR. Yamamoto R, Nickols M, DiPette DJ, Nickols GA: Insulin Enhances Pressor Responses to Norepinephrine in Rat Mesenteric Vasculature. *Hypertension* 1992;19(Suppl II):II-105 - II-110. PMID: 1735563

Yamamoto R, Nickols GA, Nickols M, DiPette DJ, **Townsend RR**, Takasaki Y: Reassessment of noradrenergic function in salt-induced hypertension in Dahl rats. *Japanese Journal of Pharmacology* 1992;58(suppl II):274.

Rude B, **Townsend RR**, DiPette DJ: Simulation of severe hypertension as a means of malingering. *The American Journal of the Medical Sciences* 1992;304:258-260.

Townsend RR, Head PAjr, Lieux TR, DiPette DJ: Insulin resistance in essential hypertension: Effects of antihypertensive drug therapy. *Current Topics in Pharmacology* 1:69-82, 1992.

Townsend RR, DiPette DJ, Lieux TR, Wolfe RR: The role of the renin-angiotensin system in insulin sensitivity in normotensive subjects. *The American Journal of the Medical Sciences* 1993;305:67-71. PMID: 8427295

Townsend RR, DiPette DJ: Evaluation of elevated blood pressure. *Clinics in Laboratory Medicine* 1993;3:287-302. PMID: 8462267

Townsend RR, DiPette DJ: Pressor doses of angiotensin II increase insulin-mediated glucose uptake in normotensive man. *American Journal of Physiology (Metabolism and Endocrine)* 1993;265:E362-E366. PMID: 8214044

Townsend RR, Evans R, Due D, Peng A: The effects of antihypertensive therapy on serum lipids in older white women. *Cardiology in the Elderly* 1993;1: 429-434.

2

The Treatment of Mild Hypertension Research Group. The Treatment of Mild Hypertension Study. *Journal of the American Medical Association (JAMA)* 270:713-724, 1993.

Townsend RR, Klein S, Wolfe RR: Changes in lipolytic sensitivity following repeated epinephrine infusion in humans. *American Journal of Physiology (Metabolism and Endocrine)* 266:E155-E160, 1994.

Townsend RR, Kapoor SC. Correspondence. *The Diabetes Control and Complications Trial*. *New England Journal of Medicine* 330: 641-642, 1994. PMID: 8302352

Perry HM, Hall WD, Benz JR, Bartels DW, Kostis JB, **Townsend RR**, Due DL, Peng A, Sirgo M. Efficacy & safety of atenolol, enalapril, & isradipine in elderly hypertensive women. *American*

Journal of Medicine 96:77-86, 1994.

Townsend RR, McGinnis PA, Tuan W-M, Thrasher K. Bilateral Adrenal Pheochromocytoma. The American Journal of the Medical Sciences 308:123-5, 1994.

Townsend RR, Zhao W. Renin activity and insulin sensitivity in normotensive subjects. American Journal of Hypertension 7:894-8, 1994. PMID: 7826552

Le TT, Haskal ZJ, Holland GA, and **Townsend R**. Endovascular stent placement and magnetic resonance angiography for management of hypertension and renal artery occlusion during pregnancy. Obstetrics and Gynecology 85:822-825, 1995. PMID: 7724125

Townsend RR, Haggert B, Liss C, Edelman JM. Efficacy and tolerability of losartan versus enalapril alone or in combination with hydrochlorothiazide in patients with essential hypertension. Clinical Therapeutics 5:911-923, 1995.

Townsend RR, Ford V. Ambulatory Blood Pressure Monitoring: Coming of age in nephrology. Journal of the American Society of Nephrology 1996;7:2279-2287. PMID: 8959618

DiPette DJ, **Townsend RR**. Classic Papers Symposium: Ambulatory Blood Pressure Monitoring and hypertensive target organ damage. American Journal of the Medical Sciences 1996;312:221-224. PMID: 8900385

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Siegelman ES, Gilfeather M, Holland GA, Carpenter JP, Golden MA, **Townsend RR**, Schnall MD. Breath-hold ultrafast three-dimensional gadolinium-enhanced MR angiography of the renovascular system. American Journal of Radiology, 168:1035-1040, 1997.

Townsend RR, Klein S. Lipolytic sensitivity and response to fasting in normotensive and hypertensive obese humans. Metabolism 2:1080-1084, 1997.

Yanovski A, Kron RE, **Townsend RR**, Ford V. The clinical utility of ambulatory blood pressure and heart rate monitoring in psychiatric inpatients. American Journal of Hypertension 1998;11:309-315. PMID: 9544871

Townsend RR, Cirigliano M. Selective angiotensin1-receptor blockade in older patients. Clinical Geriatrics 6(6):26-30, 1998

Bernard DB, **Townsend RR**, Sylvestri M. Health and disease management: What is it and where is it going? What is the role of health and disease management in hypertension? American Journal of Hypertension 11(pt2):103S-108S, 1998.

Townsend RR, Cirigliano M. Hypertension in renal failure. Disease a Month 4:243-253, 1998.

Teff KL, Alavi A, Chen J, Pourdehnad M, **Townsend RR**. Muscarinic blockade inhibits gastric emptying of mixed nutrient meal: effects on weight and gender. American Journal of Physiology (Regulatory)45:R707-R714, 1999. PMID: 10070130

Havel JP, **Townsend RR**, Chaump L, Teff KL. High fat meals reduce 24-h circulating leptin concentrations in women. Diabetes 48:334-341, 1999. PMID: 10334310

Swan SK, Lambrecht LJ, **Townsend R**, Davies BE, Parker JR, Bemse K, LaFrance ND. Safety and pharmacokinetic profile of gadobenate dimeglumine in subjects with renal impairment. Investigative Radiology 34:443-448, 1999.

Teff KL, **Townsend RR**. Early phase insulin infusion and muscarinic blockade in obese and lean

subjects. *American Journal of Physiology (Regulatory)* 277:R198-R208, 1999. PMID: 10409274

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Nawarskas JJ, **Townsend RR**, Cirigliano MD, Spinler SA. Effect of aspirin on blood pressure in hypertensive patients taking either enalapril or losartan. *American Journal of Hypertension* 12:784-789, 1999

Townsend RR, Cohen DL, Katholi R, Swan SK, Davies BE, Bensek K, Parker J. Safety of intravenous MR-doses of gadolinium (Gd-BOPTA) in patients with renal insufficiency. *American Journal of Kidney Diseases* 36:1207-1212, 2000.

Cohen DL, Kobrin S, **Townsend RR**. Dramatic recovery of renal function after six months of dialysis dependence following surgical correction of total renal artery occlusion in a solitary functioning kidney. *American Journal of Kidney Diseases* 37:E7-E11, 2001.

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Townsend RR. Cardiac mortality in chronic kidney disease: a clearer perspective. *Annals of Internal Medicine* 137:615-616, 2002.

Malhotra A, Cohen D, Syms C, **Townsend RR**. Blood pressure changes in leg on standing. *Journal of Clinical Hypertension* 4(Sep-Oct):350-354, 2002.

Halpern SD, Ubel PA, Berlin JA, **Townsend RR**, Asch D.A.. Physicians' preferences for placebo-controlled versus active-controlled trials of new antihypertensive drugs. *Journal of General Internal Medicine* 17:689-695, 2002.

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Israni A., Korzelius C., **Townsend R.**, Messler D. Management of Chronic Kidney Disease in an Academic Primary Care Clinic. *American Journal of Nephrology* 23:47-54, 2003.

Townsend, R.R. Cardiac mortality in chronic kidney disease: a clearer perspective. *Annals of Internal Medicine* 137:615-616, 2002.

Bryant J, Farmer J, Kessler LJ, **Townsend RR**, Nathanson KL. Pheochromocytoma: The Expanding Genetic Differential Diagnosis. *Journal of the National Cancer Institute* 95:1196-1204, 2003.

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Feldman HI, Appel LJ, Chertow GM, Cifelli D, Cizman B, Daugirdas J, Fink JC, Franklin-Becker ED, Go AS, Hamm LL, He J, Hostetter T, Hsu C-Y, Jamerson K, Joffe M, Kusek JW, Landis JR, Lash JP, Miller ER, Mohler ER 3rd, Muntner P, Ojo AO, Rahman M, **Townsend RR**, Wright JT; Chronic Renal Insufficiency Cohort (CRIC) Study Investigators. The Chronic Renal Insufficiency Cohort (CRIC) Study: Design and Methods. *Journal of the American Society of Nephrology* 2003;14(7 suppl 2):S148-S153. PMID: 12819321

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Cohen, D.L., Warburton, K., Bloom R.D., **Townsend, R.R.** Pulse Wave Analysis to Assess Vascular Compliance Changes in Stable Renal Transplant Recipients. *American Journal of Hypertension* 2004;17(3):209-12.

Soulen MC, Cohen DL, Itkin M, **Townsend RR**, Roberts DA. Segmental arterial mediolysis: Angioplasty of bilateral renal artery stenosis with 2-year imaging follow-up. *Journal of Vascular & Interventional Radiology* 2004;15(7):763-768.

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Other Collaborations

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ONLINE CONTRIBUTIONS

Medscape: <http://www.medscape.org/viewarticle/779800>

Google: <https://plus.google.com/events/cm46vln7vjtshla1118u990i4bg>

Lectures By Invitation

2018

"ACC/AHA BP GL Expounded (and a word on new science statement regarding resistant

hypertension)" ASH Symposium Philadelphia PA Oct 2018

"Renal denervation for Hypertension" Medical Grand Rounds Mayo Clinic Rochester MN
Nov 2018

"Hypertension 2018" Temple University Family Practice Update King of Prussia PA
Oct 2018

"Arterial stiffness, CKD, CVD" Pulse of Asia Kyoto JAPAN May 2018

"SPRINT in perspective" Temple University Medical Grand Rounds Philadelphia PA Jan
2018

"Hypertension management" AHA symposium Pittsburgh PA Jan 2018

"Renal denervation in hypertension" Drexel University ASH Symposium Philadelphia PA
May 2018

"SPYRAL Hypertension Clinical Program" Council for Hypertension AHA Chicago IL Sep
2018
detail

"Inflammation, aging and vascular rigidity in hypertension" Congresso Nefrologia Pucon CHILE
Oct 2018

"Stringent BP goals and changing therapy: Impact of the 2017 ACC/AHA hypertension guideline"
Chennai INDIA May 2018

"CAVI in CV risk prediction: Longitudinal Studies" Pulse of Asia Kyoto JAPAN
May 2018

"Renal Denervation in Hypertension" Hypertension Society of South Africa Cape Town SOUTH
AFRICA Aug 2018

"Renal denervation for HTN: out of the box, or out of our minds?" Hoobler Lecture, University of
Michigan Ann Arbor MI Sep 2018

"Renal Denervation in Hypertension Update" AHA Chicago IL Nov 2018

"Renal Denervation for Hypertension; an Update" ASH Symposium Philadelphia PA Oct
2018

"DEBATE Renal Denervation: Is there a role in essential hypertension. PRO" Council for
Hypertension AHA Chicago IL Sep 2018

"Arterial stiffness and CKD progression" Research Conference Mayo Clinic Rochester MN
Nov 2018

"Device-based methods for treating high blood pressure" ASN San Diego CA Oct 2018

"Surgical and percutaneous methods for treating high blood pressure" Council for Hypertension
AHA Chicago IL Sep 2018

"Renal denervation for hypertension: has a current role?" Congresso Nefrologia Pucon CHILE
Oct 2018

"Stringent BP goals and changing therapy: Impact of the 2017 ACC/AHA hypertension guideline"
Kolkata INDIA May 2018

"Stringent BP goals and changing therapy: Impact of the 2017 ACC/AHA hypertension guideline"
Mumbai INDIA May 2018

"Arterial stiffness and CKD" University of Alabama at Birmingham Renal Rounds Birmingham
AL Jul 2018

"Transformative research in Diabetic Nephropathy" University of Alabama at Birmingham Renal
Fellow Conference Birmingham AL Jul 2018

"Hypertension Guidelines from the ACC/AHA – new and improved?" Medicine Grand Rounds
University of New Mexico Albuquerque NM Feb 2018

"Renal denervation: In the spotlight (Again)?" Columbia Collaborative Medicine Conference
NYC Dec 2018

"Stringent BP goals and changing therapy: Impact of the 2017 ACC/AHA hypertension guideline"
New Delhi INDIA May 2018

"New evidence and perspective in RDN" Pulse of Asia Kyoto JAPAN May 2018

"Clinical Measurement of Blood Pressure and Arterial Stiffness" Southern Medical Association
Charleston SC Nov 2018

"Do measurements of arterial structure and function add to risk assessment?" Hypertension
Society of South Africa Cape Town SOUTH AFRICA Aug 2018

2017

"Pulse wave analysis in the treatment of arterial hypertension" Congresso Nefrologia Pucon
CHILE Oct 2018

"Clinical uses of ABPM", Ambulatory BP Monitoring Training Course, San Antonio TX
Sep 2017

"CKD-Hypertension-Heart Failure: The pressure's on" NYU Hypertension Update NYC May
2017

"10 things mom did not tell you about high blood pressure" Philadelphia Department of Public
Health Philadelphia PA Jun 2017

"BP Goals: Does it matter what we are trying to protect?" ASH, Philadelphia, PA Oct 2017

"Novel approaches to BP assessment in ambulatory settings" NHLBI Workshop Rockville MD Dec 2017

"Hypertensive Emergencies" ASN Board Review Course, Chicago IL Aug 2017

"Drug induced hypertension" ASN Board Review Course Chicago IL Dec 2017

"Back to the future: genetic markers of CKD development in hypertension" Indian Congress of Cardiology Mumbai INDIA Jul 2017

"Blood pressure variability and home BP Monitoring: Current status in CKD" Indian Congress of Cardiology Mumbai INDIA Jul 2017

"Bridge over troubled waters: BP management around dialysis initiation", ASN, Nov 2017 New Orleans LA

"Use of aneroid vs oscillometric BP monitors", ASH, Oct 207 Philadelphia, PA

"Urgent and emergent hypertension" American Society of Nephrology Board Review Course and Update August 2 2017 Chicago, IL

"Drug induced hypertension" American Society of Nephrology Board Review Course and Update August 2 2017 Chicago, IL

"Hypertension Update" for Nephrology fellows at the University of Maryland at Baltimore February 3, 2017 Baltimore, MD

"The ailing kidneys under pressure – and it's not just systolic" Massry Lecture, National Kidney Foundation Spring Clinical Meetings, April 19th 2017, Orlando FL

"Debate: Systolic blood pressure goal in CKD: 140 is the number – PRO side" National Kidney Foundation Spring Clinical Meetings, April 19th 2017, Orlando FL

"Hypertension" Advances in Cardiovascular Risk Reduction, Thursday, May 11, 2017 NYU, NYC

"Treating Hypertension: What are we preventing?" Columbia Cardiology Grand Rounds, May 16th 2017, NYC

"CAVI" North American Artery 7th Annual Meeting, May 19th 2017, Chicago, IL

"Ten things MOM never told us about diagnosing Hypertension" Philadelphia County Department of Public Health July 21, 2017 Philadelphia, PA

"Variability and home BP monitoring in CKD" Annual Summit on Hypertension, Indian Congress of Nephrology, July 1st 2017, New Delhi, INDIA

"Genetic forms of hypertension in CKD" Annual Summit on Hypertension, Indian Congress of

Nephrology, July 2nd 2017, New Delhi, INDIA

“Translational Research at Penn” Frontiers in Medicine, July 25th 2017, Philadelphia, PA

“Drug Induced Hypertension” ASN Board Review Course and Update, August 2nd 2017, Chicago, IL

“Urgent and Emergent Hypertension” ASN Board Review Course and Update, August 2nd 2017, Chicago, IL

2016

“How will new hypertension guidelines impact how I manage hypertension in the office setting?” 7th Annual Essentials of Primary Care Meeting, Kiawah SC JUN

“How will new hypertension guidelines in hypertension change after SPRINT?” 7th Annual Essential of Primary Care Meeting, Kiawah SC JUN

"An Update on the Role of Device Therapy for the Diagnosis and Treatment of Hypertension in 2016" 20th Annual Conference on Hypertension and Lipids, Charleston SC JUN

"Management of Hypertension in CKD: What We Have Learned from Clinical Trials?" 20th Annual Conference on Hypertension and Lipids, Charleston SC JUN

"BP Guidelines after SPRINT" University of Nebraska, Omaha NB JUN

"Device Based Therapy for Hypertension" University of Nebraska, Omaha NB JUN

"Resistant Hypertension: a Frequent Complication in Advanced CKD" American Society of Hypertension Annual Meeting, NY NY MAY

"Spyral Hypertension Global Clinical Trial Program" American Society of Hypertension Annual Meeting, NY NY MAY

"Treating the CKD Patient: What is the Appropriate BP Goal and Should Proteinuria Influence the Decision?" American Society of Hypertension Annual Meeting, NY NY MAY

"Multiple Medication Intolerant Patients" National Kidney Foundation Annual Meeting, Boston MA APR

"Management of Hypertension in CKD" National Kidney Foundation Annual Meeting, Boston MA APR

“SPRINT and BP Management in CKD” New York University, NY NY MAR

"BP Management post-SPRINT" Lancaster General Hospital, Lancaster PA MAR

"CKD and Hypertension Influence on Progression to ESRD- 2014 to 2015" Annual Meeting Christiana Medical Center, Newark DE MAR

The Heldrich lecture: "Device Therapy for Hypertension: Out of the Box or Out of Our Minds?" Robert Wood Johnson Medical School, New Brunswick NJ MAR

"Optimal Systolic BP Level in CKD" Consortium For Southeastern Hypertension Control (COSEHC) Annual Meeting, Charleston SC MAR

The Austin lecture: "BP Targets in CKD in the post-SPRINT era" Baylor University, Dallas TX JAN

"Recommendations for BP control after SPRINT" Stony Brook University Hospital, NY JAN

"BP Goals in High Risk Patients", St. Barnabas Health System, West Orange, NJ JAN

2015

"BP Targets in CKD: What is the Evidence?" Winthrop University, Long Island, NY JAN

"Predictors of Renal Denervation Responsiveness", Catheter Related Therapies, Washington, DC FEB

"Central Blood Pressures", Medscape, New York City, NY MARCH

"Hypertension Guidelines: Navigating the Minefields", Christiana Health Care, Newark, DE MARCH

"JNC-8 and the Older Hypertensive Patient", University of Pennsylvania, Geriatrics Grand Rounds, Philadelphia, PA MARCH

"Role of Hypertension Guidelines in Cardio-Oncology", American College of Cardiology, San Diego, CA MARCH

"Hypertension and the New JNC-8 Guidelines", Temple University Family Practice Update, Lancaster, PA MARCH

"Case Studies in Hypertension", Temple University Family Practice Update, Lancaster, PA MARCH

"BP in CKD ala JNC", Spring Clinical Meetings, National Kidney Foundation, Dallas, TX MARCH

"Difficult to treat Hypertension Cases ", Spring Clinical Meetings, National Kidney Foundation, Dallas, TX MARCH

"Supine Hypertension and Standing Hypotension: Suggestions", Spring Clinical Meetings, National Kidney Foundation, Dallas, TX MARCH

"Hot Topics in HTN: SGLT2 and Incretins", Spring Clinical Meetings, National Kidney Foundation, Dallas, TX MARCH

"Case Studies: ALDOSTERONE Excess", Spring Clinical Meetings, National Kidney Foundation, Dallas, TX MARCH

"Hypertension Literature Update 2014", Spring Clinical Meetings, National Kidney Foundation, Dallas, TX MARCH

"Case Studies in Hypertension", Henry Ford Health System, Detroit, MI APRIL

"JNC-8 Guidelines and Chronic Kidney Disease", Henry Ford Health System, Detroit, MI APRIL

"Device-based Interventions for Hypertension", University of Maryland at Baltimore, Baltimore, MD

2014

"Lower BP targets are Better in Diabetic Nephropathy" 74th Annual ADA Meeting, San Francisco, CA

"American Heart Association Guidance on Arterial Stiffness" 5th Pulse of Asia Meeting, Athens, GREECE

"Clinical Practice Implications of JNC8" American Society of Hypertension, NYC, NY

"Novel Blood Pressure Therapies: SGLT2 Inhibitors" American Society of Hypertension, NYC, NY

"Literature Review in Hypertension", National Kidney Foundation, Las Vegas, NV

"Moving Targets for BP Goals in CKD", National Kidney Foundation, Las Vegas, NV

"2014 Management Guidelines for Hypertension in Adults", Peruvian Cardiology Symposium, Lima, PERU

"Meet The Professor: Drug Resistant Hypertension", American College of Physicians Annual Meeting, Orlando, FL

"Blood Pressure Goals in CKD", Drexel University Renal Grand Rounds, Philadelphia, PA

"Evaluating Drug Resistant Hypertension", Society for Interventional Radiology Annual Meeting, San Diego, CA

"Resistant Hypertension", Annual Internal Medicine Conference, University of North Carolina, Chapel Hill, NC

"Making Sense of the New Hypertension Guidelines", Ava Berger Lecture, University of Rochester, Rochester, NY

"2014 Hypertension Guidelines", Medicine Grand Rounds, Marshfield Clinic, Marshfield, WI

"Resistant Hypertension", Delaware Chapter American College of Physicians Annual Meeting, Newark, DE

"Arterial Stiffness in Chronic Kidney Disease", Medicine Grand Rounds, University of New Mexico, Albuquerque, NM