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Education

1980	B.A. Mathematics	Grinnell College, Grinnell, IA
1985	Ph.D. Statistics	University of Minnesota, Minneapolis, MN

Academic Positions

August, 1985- August, 1989	Assistant Professor, Department of Statistics and Actuarial Science The University of Iowa
September, 1989 – July, 1990	Visiting Assistant Professor, Department of Biostatistics Harvard School of Public Health
August, 1990 – June 1991	Assistant Professor, Department of Statistics and Actuarial Science The University of Iowa
July, 1991 – June, 1994	Assistant Professor, Department of Community and Family Medicine Duke University Medical Center
July, 1994 – July, 1996	Associate Professor, Department of Community and Family Medicine Duke University Medical Center
July, 1996- June, 2002	Associate Professor, Division of Biostatistics and Epidemiology Department of Health Evaluation Sciences, University of Virginia
July, 2002 – May, 2003	Professor, Division of Biostatistics and Epidemiology Department of Health Evaluation Sciences, University of Virginia
May, 2003 – May, 2008	Director, Division of Biostatistics and Epidemiology Department of Public Health Sciences , University of Virginia
May, 2008 – December 2010	Professor, Division of Biostatistics and Epidemiology Department of Public Health Sciences, University of Virginia
January 2011 – July 2019	Professor, Division of Translational Research and Applied Statistics

Director of Translational Research

July 2019 – present Professor, Division of Translational Research and Applied Statistics
Director of Translational Research
Associate Chair for Faculty Development
Department of Public Health Sciences, University of Virginia

Honors and Awards

Year	Honor
2009	Elected Member, Academy of Distinguished Educators University of Virginia School of Medicine
2012	Fellow, American Statistical Association
2012	Dean’s Award for Team Research Excellence
2020	Dean’s Award for Team Research Excellence

Grants as Principal Investigator

Status	Title
Completed	R01: Designs for phase I trials of combinations of agents. 2010-2013
Completed	R01: Designs for phase I trials in heterogeneous groups. 2014-2019

Review Panels

Panel	Year	Reviews
NIH Special Emphasis Panels	1994	P01 Programs in Prostate Cancer
	1999	Trans-Disciplinary Tobacco Research Centers
	2000	P01 Programs in Angiogenesis
	2001	SPOREs in GI and Prostate Cancer
	2002	SPOREs in Lung Cancer
	2004	Evaluating cancer signatures
	2009	ARRA RC1 reviews , study section ZRG1 OTC-K
	2010	NCI P01 Clinical Studies Special Emphasis Panel
	2018	NIDCR Special Emphasis Panel ZDE1 MH (15)
	2018	National Clinical Trials Network (NCTN)
	2018	NHLBI PRIDE program
	Feb,2020	The Cancer Biotherapeutics Development (CBD)
	Jul, 2020	The Cancer Biotherapeutics Development (CBD)
	Oct, 2020	The Cancer Biotherapeutics Development (CBD)
NIH Study Section	2010-2014	Member. Clinical Oncology Study Section (CONC)
	2017	Ad hoc reviewer, CONC
NASA	Oct, 2017	Reviewer, NASA CNS-degen panel
	Feb,2018	Reviewer, NASA CNS panel
	Jul, 2018	Reviewer, NASA CNS panel
	Oct, 2018	Reviewer, NASA Behavioral Health

	Feb,2019	Reviewer, NASA CNS panel
	Oct,2019	Reviewer, NASA TRISH program
	Feb,2020	Reviewer, NASA Behavioral Health
	July,2020	Reviewer, NASA TRISH program
	Nov, 2020	VESGEN Directed Study Review
	Mar 2021	Reviewer, NASA Behavioral Health
	June 2021	Reviewer, TRISH Human Subjects
	June 2021	Reviewer, TRISH in vitro and in vivo
Shriner's Hospital	2017	Reviewer, Research Grants
	2018	Reviewer, Research Grants
	2020	Reviewer, Developmental Grants

Data Safety Monitoring Boards

Study	PI, Institution	Years
OPT Clinical Trial	Michalowicz, University of Minnesota	2002-2006
MOTOR Clinical Trial	Offenbacher, University of North Carolina	2003-2007
Department of Psychiatric Medicine	Johnson, University of Virginia	2005-2017
CLIP Clinical Trial	Jakicic, Wake Forest University	2005-2008
Omega-3 in NASH patients	Caldwell, University of Virginia	2008-2009
CLIP-II Trial	Jakicic, Wake Forest University	2012-2016
TCAP Clinical Trial	G. Bernard, Vanderbilt; J. Truwit, Wisconsin	2014-2015
Harvest for Health	Demark-Wahnefried, W.; UAB	2016-present
AMPLIFY study	Demark-Wahnefried, W.; UAB	2019-present
Modifying Progesterone and Estradiol Levels to Prevent Postpartum Cigarette Smoking	Allen, University of Arizona	2021-present

Professional Activities

Activity	Description
Associate Editor	The American Statistician, 1992 – 1996 Communications in Statistics, 1995 – 1999 Journal of the American Statistical Association, 1996 – 2004 Developmental Medicine and Child Neurology 2007 - 2010 Annals of Applied Statistics, 2021 - present
Professional Memberships	American Statistical Association ASA Committee on Law and Justice Statistics, 1994 - 1996 ASA Chapter Representative, Iowa Chapter, 1990 - 1991
Advisory Board	Regional Advisory Board, Biometrics Society (ENAR) 2002-2004

University and School of Medicine Committees

Years	Committee
2012- 2015	Provost's Promotion and Tenure Committee

Years	Committee
2003- 2012	School of Medicine Promotion and Tenure Committee
2010- 2018	Academy of Distinguished Educators Membership Committee
2011- 2015	Quantitative Collaborative Steering Committee
2011	Search Committee, Cancer Center Director
2005	Provost Committee for School of Medicine Dean Re-appointment

Peer-reviewed publications

1. **Conaway, M.** (1989) "Conditional Likelihood Methods for Repeated Categorical Responses", *Journal of the American Statistical Association*, 84, 53- 62.
2. **Conaway, M.** (1990) "A Random Effects Model for Binary Data", *Biometrics*, 46, 317 - 328.
3. **Conaway, M.**, Pillers, C., Robertson, T., and Sconing, J. (1990) "The Power of the Circular Cone Test: A Noncentral Chi-bar-Squared Distribution", *Canadian Journal of Statistics*, 18, 63 - 70.
4. **Conaway, M.**, Pillers, C., Robertson, T., and Sconing, J. (1991) "A Circular Cone Test for Testing Homogeneity Against a Simple Tree Alternative", *Canadian Journal of Statistics*, 19, 293 - 296.
5. Al-Bakri, A; **Conaway, M**; Stoner, J (1991) "Conditional Analysis of Accidents at Four-Approach Traffic Circles" *Transportation Research Record* 1327, 42-46
6. **Conaway, M.**, Waternaux, C., Allred, E., Bellinger, D., and Leviton, A. (1992) "Pre-Natal Blood Lead Levels and Learning Difficulties in Children: An Analysis of Nonrandomly Missing Categorical Data". *Statistics in Medicine*, 11, 799 - 811. PMID: 1594818.
7. **Conaway, M.**(1992) "The Analysis of Repeated Categorical Measurements Subject to Nonignorable Nonresponse". *Journal of the American Statistical Association*, 87, 817-824.
8. Pillai, V.J. and **Conaway, M.** (1992) "Immunization Coverage in Lusaka, Zambia: Implications of the Social Setting," *Journal of Biosocial Science*, 24, 201-209. PMID: 1583034
9. Demark-Wahnefried,W., Paulson, D., Robertson, C., Anderson,E., **Conaway,M.**, and Rimer, B. (1992) "Body Dimension Differences in Men With or Without Prostate Cancer," *Journal of the National Cancer Institute*, 84, 17:1363-1364. PMID: 1495106
10. **Conaway, M.** (1993) "Nonignorable Nonresponse Models for Time Ordered Categorical Responses" *Applied Statistics*, 42, 105-112.
11. Kornguth,P., Rimer,B., **Conaway, M.**, Sullivan,D., Catoe, K., Stout,A. and Brackett, J. (1993), "The Impact of Patient-Controlled Compression on the Mammography Experience," *Radiology*, 186:99-102. PMID: 8416595
12. Winer, E., Fee-Fulkerson,K.,Fulkerson,C., Georgiade,G., Catoe,K., Brunatti,C., **Conaway, M.**, Holmes,V. and Rimer, B. (1993) The Silicone Controversy: A Survey of Women with Breast Cancer and Silicone Implants. *Journal of the National Cancer Institute*, 85, 17:1407-1411. PMID: 8350364

13. Rimer, B., **Conaway, M.**, Kornguth, P., Stout, A., Catoe, K. and Brackett, J. (1993) "The Effect of Force, Race and Coping Style on Pain During Patient-Controlled Mammography", *Journal of Women's Health*, 2: 249 - 255.
14. Wiener, J., Kerns, B., Harvey, E., **Conaway, M.**, Marks, J., Iglehart, D. and Bast, R. (1994) "Overexpression of the Tyrosine Phosphatase PTP1B in Human Mammary Carcinomas: Association with p185 c-erbB-2 Expression." *Journal of the National Cancer Institute*, 86, 372-378. PMID: 7905928
15. **Conaway, M.** and Lohr, S. (1994) "A Longitudinal Analysis of Factors Affecting the Reporting of Crimes to the Police" *Journal of Quantitative Criminology*, 10, 23-39.
16. **Conaway, M.** (1994) "Causal Nonresponse Models for Repeated Categorical Responses", *Biometrics*, 50, 1102-1116. PMID: 7786991
17. Wiener, J., Hurteau, J., Kerns, B., Whitaker, R., **Conaway, M.**, Wu, S., Berchuck, A. and Bast, R. (1994) "Overexpression of the Tyrosine Phosphatase PTP1B is Associated with Malignant Human Ovarian Cancer". *American Journal of Obstetrics and Gynecology*, 84, (6), 969-973. PMID: 8166206
18. Woolas, R., **Conaway, M.**, Xu, F.-J., Jacobs, I., Yu, Y.-J., Daly, L., Prys Davies, A., O'Briant, K., Berchuck, A., Soper, J., Clarke-Pearson, D., Rodriguez, G., Oram, D. and Bast, R. (1994) "Combinations of Multiple Serum Markers are Superior to Individual Assays for Distinguishing Malignant from Benign Pelvic Masses." *Gynecological Oncology*, 59, 1:111-116. PMID: 7557595
19. Soper, J., Evans, A.C., and **Conaway, M.** (1995) "Evaluation of prognostic factors and staging in gestational trophoblastic tumor", *Obstetrics and Gynecology*, 84, (6):969-973. PMID: 7970479
20. **Conaway, M.** (1995) "Importance Sampling to Evaluate Bivariate Probabilities With Applications to Sequential Phase II Trials." *Journal of Statistical Computation and Simulation*. 51, 249-262.
21. Wahnefried-Demark, W., Strigo, T., Catoe, K., **Conaway, M.**, Brunetti, M., Rimer, B., and Robertson, C. (1995) "Knowledge, Beliefs and Prior Screening Behavior Among Blacks and Whites Reporting for Prostate Cancer Screening," *Urology*, 46,(3), 346-351. PMID: 7660510
22. Liu, R.J., **Conaway, M.**, Rodriguez, G., Soper, J., Clarke-Pearson, D. and Berchuck, A. (1995) "Poor survival of black women with endometrial cancer is not due to a prolonged interval between the onset of abnormal uterine bleeding and hysterectomy." *Obstetrics and Gynecology*, 86, 4, 486-490. PMID: 7675366
23. **Conaway, M.** and Petroni, G. (1995) "Bivariate Sequential Designs for Phase II Trials." *Biometrics*, 51, 656-664. PMID: 7662852
24. Fee-Fulkerson, K., **Conaway, M.**, Winer, E., Fulkerson, C., Rimer, B., Catoe, K., Brunatti, C. and Georgiade, G. (1996) "Factors Contributing to Patient Satisfaction with Breast Implants using Silicone Gel" *Journal of Plastic and Reconstructive Surgery*. PMID: 8643726
25. Soo, M., Sullivan, D., Hooper, D., **Conaway, M.**, Georgiade, G., Kornguth, P. (1996) "Film Screen Mammography and Sonography in the Evaluation of Breast Prosthesis Integrity" *Breast Disease*, 9: 81-92.

26. Rimer, B., **Conaway, M.**, Lyna, P. Rakowski, W., Woods-Powell, CT. Tessaro, I., Yarnall, K., and Barber, T. (1996) "Cancer Screening Practices among Women in a Community Health Center Population" *American Journal of Preventive Medicine*, 351-357. PMID: 8909646
27. Kornguth, P., Keefe, F. and **Conaway, M.** (1996) "Pain During Mammography: Characteristics and Relationships to Medical and Demographic Characteristics." *Pain*, 66, 187-194. PMID: 8880840
28. Lipkus, I., Lyna, P., Rimer, B. Pradham, A., **Conaway, M.**, and Woods-Powell, C.T. (1996) "Colorectal Screening Patterns and Perceptions of Risk among African-Americans users of a Community Health Center.", *Journal of Community Health*, 21, 409-427. PMID: 8912118
29. **Conaway, M.** and Petroni, G. (1996) "Designs for Phase II Trials Allowing for a Trade-Off Between Response and Toxicity." *Biometrics*, 52, 1375-1386. PMID:8962459
30. Schilling, A., **Conaway, M.**, Wingate, P., Atkins, J., Berkowitz, I., Clamon, G., DiFino, S. and Vinciguerra, V. (1996) "Recruiting cancer patients to participate in motivating their relative to quit smoking: a cancer control study of the Cancer and Leukemia Group B." *Cancer*, 79: 152-160. PMID: 8988740
31. Demark-Wahnefried, W., Hars, V., **Conaway, M.**, Havlin, K., Rimer, B., McElvinn, G. and Winer, E. (1997) "Reduced rates of metabolism and decreased physical activity in breast cancer patients receiving adjuvant chemotherapy." *American Journal of Clinical Nutrition*, 65: 1495-1501. PMID: 9129482
32. Demark-Wahnefried, W., Lesko, S., **Conaway, M.**, Robertson C., Lobaugh, B., Clark, R., and Paulson, D. (1997) "Serum androgens: associations with prostate cancer and hair patterning", *Journal of Andrology*, 18: (5) 495-500. PMID: 9349747
33. Demark-Wahnefried, W., Robertson, C., **Conaway, M.**, Anderson, E. , Matthias, B. and Paulson, D. (1997) "Anthropometric risk factors for prostate cancer" *Nutrition and Cancer*, 28: (3) 302-307. PMID: 9343840
34. Rimer, B., **Conaway, M.**, Lyna, P., Glassman, B., Yarnall, K., Lipkus, I., and Barber, T. (1998) "The impact of tailored interventions on a community health center population" *Patient Education and Counseling*, 37, 125-140. PMID: 14528540
35. Dean G., Pusztai L., Xu F., O'Briant K., DeSombre K., **Conaway M.**, Boyer C., Mendelsohn J., Bast R. (1998) "Cell surface density of p185(c-erbB-2) determines susceptibility to anti-P185(c-erbB-2)-ricin A chain (RTA) immunotoxin therapy alone and in combination with anti-P170(EGFR)-RTA in ovarian cancer cells" *Clinical Cancer Research* 4: 10 2545-2550. PMID: 9796989
36. Kantoff P., Halabi, S., **Conaway, M.**, et al. (1999) "Hydrocortisone with or without mitoxantrone in men with hormone-refractory prostate cancer: Results of Cancer and Leukemia Group B 9182 study. *Journal of Clinical Oncology* 17:2506-2517. PMID: 10561316
37. Kattwinkel J., Bloom, B., Delmore, P., Glick, C., Brown, D., Lopez, S., Willett, L., Egan, E., Patrie, J. and **Conaway, M.** (2000) "High versus Low Threshold Surfactant for Neonatal RDS. *Pediatrics*, 106: 282-288 PMID: 10920152

38. Shim, W.-S., **Conaway, M.**, Masamura, S., Yue, W., Qang, J., Kumar, R. and Santen, R. (2000) "Estradiol Hypersensitivity and Mitogen Activated Protein Kinase Expression in Long Term Estrogen Deprived Human Breast Cancer Cells in Vivo" *Endocrinology* 141: 396-405. PMID: 10614662
39. Dawson, N., **Conaway, M.**, Halabi S, et al. (2000) " A randomized study comparing standard versus moderately high dose megestrol acetate in advanced prostate cancer: Cancer and Leukemia Group B (CALGB) study 9181." *Cancer*, 88,4: 825-832. PMID: 10679652
40. Spinosa, D. J., Angle, J. F., Hagspeil, K. D., Bissonette, E. A., **Conaway, M.**, Hartwell, G. D., Matsumoto, A. H. (2000). "Feasibility of Gadodiamide Compared with Iodinated Contrast Material for Imaging of the Abdominal Aorta and Renal Arteries", *Journal of Vascular and Interventional Radiology*, 6: 733-737. PMID: 10877418
41. Sheta, E., Harding, M., **Conaway, M.** and Theodorescu, D. (2000) "Focal adhesion kinase, Rap 1, and transcriptional induction of vascular endothelial growth factor". *Journal of the National Cancer Institute*, 92: 1065-1073. PMID: 10880549
42. Dunkl, P., Taylor, A., McConnell, G., Alfano, A. and **Conaway, M.** (2001) "Responsiveness of Fibromyalgia Clinical Trial Outcome Measures", *Journal of Rheumatology*, **27**: 2683-2690. PMID: 11093454
43. Liptak, G., O'Donnell, M., **Conaway, M.**, Chumlea, W., Worley, G., Henderson, R., Fung, E., Stallings, V., Samson-Fang, L., Calvert, R., Rosenbaum, P. and Stevenson, R. (2001) "The Health Status of Children with Moderate to Severe Cerebral Palsy". *Developmental Medicine and Child Neurology*, **43**, 6: 364-370. PMID: 11409824
44. Halabi, S., **Conaway, M.**, Small, E., Vogelzang, N. and Dawson, N. (2001) "Serum Prostate Specific Antigen as a Predictor of Survival in Prostate Cancer Patients Treated with Second-Line Hormonal Therapy (CALGB 9181)", *The Prostate Journal* **3** (1), 18-25.
45. Alfano, A., Taylor, A., Dunkl, P., McConnell, G., **Conaway, M.** and Gillies, G. (2001) "Static Magnetic Fields for Treatment of Fibromyalgia: A Double-blind Randomized Controlled Trial" *Journal of Alternative and Complementary Medicine*, 7:53-64. PMID: 11246937
46. Mathes, D., **Conaway, M.**, and Ross, W. (2001) "Ambulatory surgery: Room air versus nasal cannula oxygen during transport after general anesthesia. *Anesthesia and Analgesia*, 93 (4): 917-921. PMID: 11574357
47. Henderson RC, Lark RK, Renner JB, Fung EB, Stallings VA, **Conaway M**, Stevenson RD. Dual X-ray absorptiometry assessment of body composition in children with altered body posture. *J Clin Densitom.* 2001 Winter;4(4):325-35. PMID:11748337
48. Johnson, M., Macdonald, T., Mannick, J., **Conaway, M.** and Gaston, B. (2001) "Accelerated S-Nitrosothiol Breakdown by Amyotrophic Lateral Sclerosis Mutant Copper, Zinc- Superoxide Dismutase". *Journal of Biological Chemistry*, 276:43 39872-39878. PMID: 11518706
49. Fung EB, Samson-Fang L, Stallings VA, **Conaway M**, Liptak G, Henderson RC, Worley G, O'Donnell M, Calvert R, Rosenbaum P, Chumlea W, Stevenson RD. Feeding dysfunction is associated with poor growth

and health status in children with cerebral palsy. *J Am Diet Assoc.* 2002 Mar;102(3):361-73. PubMed PMID: 11902369

50. Peddada, S., Prescott, K., and **Conaway, M.** (2001) "Tests for Order Restrictions in Binary Data", *Biometrics.* 57 (4): 1219-1227 PMID: 11764263
51. Dunbar, S., **Conaway, M.** and Peddada, S. (2001) "On improved estimation of parameters subject to order restrictions" *Statistics and Applications* 3, 121-128.
52. Henderson, R., Lark, R., Gurka, M., Worley, G., Fung, E., **Conaway, M.**, Stallings, V. and Stevenson, R., (2002), "Bone Density and Metabolism in Children and Adolescents with Moderate to Severe Cerebral Palsy" *Pediatrics*, 111, e5. PMID: 12093986
53. Moore, S., Lima, A., **Conaway, M.**, Schorling, J., Soares, A., and Guerrant, R. (2001) "Early Childhood Diarrhea and Helminthiasis Associate with Long Term Growth Faltering" *International Journal of Epidemiology* 30 (6): 1457-1464. PMID: 11821364
54. Santen RJ, Pinkerton JV, **Conaway M**, Ropka M, Wisniewski L, Demers L, Klein KO, (2002) Treatment of urogenital atrophy with low dose vaginal estradiol," *Menopause*, 9, 3: 179-187. PMID: 11973441
55. Yue, W., Wang, J-P, **Conaway, M.**, Masamura, S. and Santen, R. (2002) "Activation of the MAP Kinase Pathway Enhances Sensitivity of MCF-7 Breast Cancer Cells to the Mitogenic Effect of Estradiol." *Endocrinology.* 143, 9, 3221-3229. PMID: 12193533
56. Detti, L., Mari, G. Cosmi, E., Akiyama, M., Moise, K., Stefos, T., **Conaway, M.** and Deter, R. (2002) "Longitudinal Assessment of the Middle Cerebral Artery Peak Systolic Velocity in Normal Fetuses and in Fetuses at Risk for Anemia." , *American Journal of Obstetrics and Gynecology*, 187 (4) 937-939. PMID: 12388981
57. Worley, G., Houlihan, C., Herman-Giddens, M., O'Donnell, M, **Conaway, M.**, Stallings, V., Chumlea, W.C., Henderson, R., Fung, E., Rosenbaum, P., Samson-Fang, L., Liptak, G., Calvert, R., and Stevenson, R. (2002) "Sexual Maturation in Children with Cerebral Palsy: a cross-sectional survey", *Pediatrics* PMID: 12415027
58. Samson-Fang, L., Fung, E., Stallings, V., **Conaway, M.**, Worley, G., Rosenbaum, P., Calvert, R., O'Donnell, M., Henderson, R., Chumlea, W., Liptak, G., Stevenson, R. (2002) "Nutritional Status and Its Relationship to Health and Societal Participation in Children with Moderate and Severe Cerebral Palsy" *Journal of Pediatrics*, 141 (5) 637 – 642. PMID: 12410191
59. Gildea, J., Javed Seraj, M., Oxford, G., Harding, M., Hampton, G., Moskaluk, C., Frierson, H., **Conaway, M.** and Theodorescu, D. (2002) "RhoGDI2 Is an Invasion and Metastasis Suppressor Gene in Human Cancer" *Cancer Research* 62: 6418-6423 PMID: 12438227
60. Bigler D, Gulding KM, Dann R, Sheabar FZ, **Conaway MR**, Theodorescu D (2003) "Gene profiling and promoter reporter assays: Novel tools for comparing the biological effects of botanical extracts on human prostate cancer cells and understanding their mechanisms of action", *Oncogene*, 22 (8): 1261-1272.

61. Abel MF, Damiano DL, Blanco JS, **Conaway M**, Miller F, Dabney K, Sutherland D, Chambers H, Dias L, Sarwark J, Killian J, Doyle S, Root L, LaPlaza J, Widmann R, Snyder B (2003) "Relationships among musculoskeletal impairments and functional health status in ambulatory cerebral palsy", *Journal of Pediatric Orthopedics* 23 (4): 535-541. PMID: 12826956
62. Patrick, P., Buck, M., **Conaway, M.** and Blackman, J. (2003) The use of dopamine enhancing medications with children in low response states following brain injury. *Brain Injury*, 27, 6, 497-506. PMID: 12745705
63. Rice, S.A., Elgin, K., Farrell, W., **Conaway, M.**, Allaire, J., Blackman, J. (2003) "Impact of shortened length of stay on outcome after pediatric rehabilitation" *American Journal of Physical Medicine & Rehabilitation*. 83(1):27-32, January 2004. PMID:14709972
64. Yue, W., Wang, J-P., **Conaway, M.**, Li, Y. and Santen, R. (2003) "Adaptive hypersensitivity following long-term estrogen deprivation: involvement of multiple signal pathways," *Journal of Steroid Biochemistry and Molecular Biology*, 86, 265-274. PMID: 14623520
65. McPherson, R., **Conaway, M.**, Gregory, C. Yue, W. and Santen, R. (2004) "The Novel Ras Antagonist, Farnesylthiosalicylate, Suppresses Growth of Prostate Cancer in vitro", *The Prostate*. 58:4, 325-334. PMID: 14968433
66. Berstein, L., Wang, J.-P., Zheng, H., **Conaway, M.** and Santen, R. (2004) "Long term exposure to tamoxifen induces hypersensitivity to estradiol" *Clinical Cancer Research*, 10 (4): 1530-1534. PMID: 14977857
67. **Conaway, M** , Dunbar, S., and Peddada, S. (2004) "Designs for single or multiple agent phase I trials", *Biometrics*, 60, 661-669. PMID: 15339288
68. Black, B., Vitto, M., Gioeli, D. Spencer, A., Afshar, N., **Conaway, M.**, Weber, M. and Paschal, B. (2004) "Transient, Ligand-dependent Arrest of the Androgen Receptor in Sub-Nuclear Foci Alters Phosphorylation and Co-activator Interactions" *Molecular Endocrinology* 18 (4): 834-850 APR 1 2004 PMID: 14684849
69. Chen, P., Soares, A., Lima, A., Gamble, M., Schorling, J., **Conaway, M.**, Barrett, L., Blaner, W. and Guerrant., R. (2003) "Association of Vitamin A and Zinc Status with Altered Intestinal Permeability: Analyses of Cohort Data from Northeastern Brazil" 21(4):309-15
70. Theodorescu, D., Sapinoso, L., Hampton, G., **Conaway, M.** and Frierson, H. (2004) "The Metastasis Suppressor RhoGDI2 is an independent predictor of survival in bladder cancer" *Clinical Cancer Research*, 10: 3800-3806 PMID: 15173088
71. Wolf, A., **Conaway, M.**, Crowther, J., Hazen, K., Nadler, J., Oneida, B., and Bovbjerg, V. (2004) Translating Lifestyle Intervention to Practice in Obese Patients with Type 2 Diabetes: Improving Control with Activity and Nutrition (ICAN) , *Diabetes Care* 27 (7): 1570-1576 PMID: 15220230
72. Houlihan, C., O'Donnell, M, **Conaway, M.**, Worley, M., Stallings, V., Chumlea, W., Henderson, R., Fung, E., Rosenbaum, P., Samson-Fang, L., Liptak, G., Calvert, R., and Stevenson, R. (2004) "Bodily Pain and Health Related Quality of Life in Children with Cerebral Palsy", *Developmental Medicine and Child Neurology* 46 (5): 305-310 PMID: 15132260

73. Nicholson, B., Frierson, H., **Conaway, M.**, Seraj, J., Harding, M., Hampton, G. and Theodorescu, D. (2004) Profiling the evolution of human metastatic bladder cancer. *Cancer Research* 64 (21) 7813-7821 PMID: 15520187
74. Nicholson, B., Gulding, K., **Conaway, M.**, Wedge, S., and Theodorescu, D., (2004) "Combination antiangiogenic and androgen deprivation therapy for prostate cancer: A promising therapeutic approach" *Clinical Cancer Research* 10 (24) 8728-8734 PMID: 15623658
75. Blackman, JA, Rice, SA, Matsumoto, JA; **Conaway, M.**, Elgin, K, Patrick, P., Farrell, W., Allaire, J., and Willson, D. (2005) "Brain Imaging as an Early Predictor of Outcome following Traumatic Brain Injury in Children" *Journal of Head Trauma Rehabilitation*, 18 (6): 493-503. PMID: 14707879
76. Kahaleh, M., Shami, V., Brock, A., **Conaway, M.**, Yoshida, C., Moskaluk, C., Adams, R., Tokar, J. and Yeaton, P. (2005) Factors Predictive of Malignancy and Endoscopic Resectability in Ampullary Neoplasia. *American Journal of Gastroenterology*, 99 (12): 2335-2339. PMID: 15571579
77. Willson DF, Thomas NJ, Markovitz BP, Bauman LA, DiCarlo JV, Pon S, Jacobs BR, Jefferson LS, **Conaway MR**, Egan EA, and members of the Pediatric Acute Lung Injury and Sepsis Investigators (PALISI) (2005) "Effect of Exogenous Surfactant (Calfactant) in Pediatric Acute Lung Injury, *Journal of the American Medical Association* 293 (4): 470-476 PMID: 15671432
78. Kahaleh, M. Tokar, J., **Conaway, M.**, Brock, A., Le, T., Adams, R. and Yeaton, P. (2005) Efficacy and complications of covered Wallstents in malignant distal biliary obstruction. *Gastrointestinal Endoscopy*, 61:528-533. PMID: 15812404
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intervention tested in a randomized clinical trial- December 2020, *BMJ Open Diabetes Research and Care*2020;8:e001795. doi:10.1136/bmjdr-2020-001795.

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Selected abstracts (nominated or winners of awards for best paper)

G Worley, M Hermann-Giddens, CM Houlihan, L Samson-Fang, E Fung, VA Stallings, **M Conaway**, P Rosenbaum, R Calvert, M O'Donnell, RC Henderson, WC Chumlea, GS Liptak, RD Stevenson, "Sexual Maturation in Children with Cerebral Palsy," *Developmental Medicine and Child Neurology*, 41 (supplement No.80): 10, 1999.

Nominated for Richmond Award for best paper presented at 1999 Scientific Meeting of American Academy for Cerebral Palsy and Developmental Medicine

GS Liptak, M O'Donnell, RD Stevenson, **M Conaway**, WC Chumlea, G Worley, RC Henderson, E Fung, VA Stallings, L Samson-Fang, R Calvert, and P Rosenbaum, "The Health Status of Children Who Have Moderate/Severe Cerebral Palsy Enrolled in a Collaborative, Multi-centered, Population-based Study," *Developmental Medicine and Child Neurology*, 41 (supplement No.80): 8, 1999.

Nominated for Richmond Award for best paper presented at 1999 Scientific Meeting of American Academy for Cerebral Palsy and Developmental Medicine

CM Houlihan, **M Conaway**, VA Stallings, WC Chumlea, G Worley, RC Henderson, E Fung, P Rosenbaum, L Samson-Fang, GS Liptak, M O'Donnell, R Calvert, and RD Stevenson, "Pain in Children with Cerebral Palsy," *Developmental Medicine and Child Neurology*, 42 (supplement): 2000. *Won Richmond Cerebral Palsy Award for best paper presented at 2000 Meeting of American Academy for Cerebral Palsy and Developmental Medicine, Dr. Houlihan also awarded Most Promising Career Award for presentation*

D Oeffinger, **M Conaway**, R Stevenson (2009) "Tibial growth curves for ambulatory children with cerebral palsy." *Nominated for 2010 Gayle G. Arnold Award for Excellence for a paper presented at the 2009 Scientific Meeting of American Academy for Cerebral Palsy and Developmental Medicine*

Editorials /Commentary/Letters

1. Hawkins, D., **Conaway, M.**, Hackl, P., Kovacevic, M., Sedransk, J., Woodworth, G., Bosch, R., Breen, C. (1989) "Editorial: Report on the Statistical Quality of Endocrine Society Journals", *Endocrinology*, **125**, 1749 - 1753. PMID: 2791962
2. Stevenson, R and **Conaway, M.** (2007) "Growth assessment of children with cerebral palsy: the clinician's conundrum." *Developmental Medicine and Child Neurology*, 49 (3) 164. PMID: 17355468
3. **Conaway M.** (2009) Reference data and quantile regression. *Muscle and Nerve*, 40(5) 751-752. PMID: 19827090
4. Stevenson, R and **Conaway, M.** (2011) "Weight and mortality rates: 'Gomez classification' for children with cerebral palsy?" *Pediatrics*.
5. Wages NA, **Conaway MR**, O'Quigley J (2014) Comments on 'A dose-finding approach based on shrunken predictive probability for combinations of two agents in phase I trials' by Akihiro Hirakawa, Chikuma Hamada, and Shigeyuki Matsui. *Stat Med*. 2014 May 30;33(12):2156-8. PMID: 24797319
6. Wages NA, **Conaway MR**, Slingluff CL Jr, Williams ME, Portell CA, Hwu P, Petroni GR (2015) Recent developments in the implementation of novel designs for early-phase combination studies. *Ann Oncol*. 2015 Feb 19. PMID: 25697216
7. **Conaway MR** and Petroni GR (2019) The Role of Early-Phase Design-Response. *Clinical Cancer Research*. 2019 May 15;25(10):3191. doi: 10.1158/1078-0432.CCR-19-0618.

Book Chapters

1. Bast, R., Xu, F-J, Woolas, R, Yu, Y-H, **Conaway, M.**, O'Briant, K., Daly, L., Oram, D., Berchuck, A., Clarke-Pearson, D., Soper, J, Rodriguez, G. and Jacobs, I. (1993) "Complementary and Coordinate Markers for Detection of Epithelial Ovarian Cancers" in *Ovarian Cancer 3*. Eds. F. Sharp, P. Mason and J. Berek. London: Chapman and Hall.

2. **Conaway, M.** (1997) "Latent class analysis", in *The Encyclopedia of Biostatistical Sciences*, eds. Armitage, P. and Colton, T. New York: John Wiley and Sons.
3. Petroni, G. and **Conaway, M.** (2001) "Phase II trials with combined response and toxicity endpoints", in *Handbook of Statistics in Clinical Oncology*, ed. Crowley, J. Marcel Dekker.
4. Petroni, G. and **Conaway, M.** (2004) "Phase II trials with combined response and toxicity endpoints", in *Handbook of Statistics in Clinical Oncology*, 2nd edition, ed. Crowley, J. Marcel Dekker.
5. **Conaway, M.**, Rejeski, W.J., and Miller, M. (2009) Statistical Issues In Measuring Adherence: Methods For Incomplete Longitudinal Data. in *Handbook of Health Behavior Change*, 3rd Edition. ed. Shumaker, S. New York: Springer Publishing Company, LLC
6. Wang, H., **Conaway M.** and Petroni, G. (2010) Phase II Trial Design, in *Fundamentals of Clinical Oncology*, eds. Halabi, S. and Kelly, W.
7. Petroni, G. and **Conaway, M.** (2011) "Phase II trials with combined response and toxicity endpoints", in *Handbook of Statistics in Clinical Oncology*, 3rd edition, ed. Crowley, J. Marcel Dekker.
8. **Conaway, M.** and Wages, N. (2016). "Phase I Trials and Dose Finding" in *Cancer Clinical Trials: Current and Controversial Issues in Design and Analysis*. Eds. Stephen L. George, Xiaofei Wang, Herbert Pang. CRC Press, Aug 19, 2016
9. **Conaway, M.** (2017). "Patient Heterogeneity in Dose-Finding Trials", in *Handbook of Methods for Designing, Monitoring, and Analyzing Dose-Finding Trials*. Eds. John O'Quigley, Alexia Iasonos, Björn Bornkamp. CRC Press, Apr , 2017
10. **Conaway M** (2018) "Dose-Finding Using the Continual Reassessment Method" in *Oncology Clinical Trials: Successful Design, Conduct, and Analysis*, eds. WK Kelly, DO, S Halabi, PhD, Springer Publishing Company
11. **Conaway M** and Petroni G (2021) "Dose-Finding and Dose-ranging Studies" in *Principles and Practice of Clinical Trials*, eds. Steven Piantadosi and Curtis L. Meinert (Eds). Springer Nature.

Student Advising

A. Doctoral Student Advising

Doctoral Students	Date	Thesis topic
Prescott, Katherine ¹	May, 2000	Order Restricted Inference in Generalized Linear Models PhD, Department of Statistics, University of Virginia
Dunbar, Stephanie ¹	May, 2000	Order Restricted Inference with Applications to Phase I Clinical Trials in Oncology PhD, Department of Statistics, University of Virginia
Chan, Kuo-Chen ²	May, 2005	Statistical Inference in Models for Reference Centiles. PhD, Department of Statistics, University of Virginia

Yuan Xue ³	May, 2014	Biomarkers in Phase I Clinical Trials, PhD, Department of Statistics, University of Virginia
Jesse Helman ⁴	Current	Dose Modifications in Phase I trials PhD, Department of Statistics, University of Virginia

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1. co-advisor, Professor Shyamal Peddada, Department of Statistics
 2. co-advisor, Professor Theodore Chang, Department of Statistics
 3. co-advisor, Professor Feifang Hu, Department of Statistics
 4. co-advisor, Professor Karan Kafadar, Department of Statistics
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B. M.S. Student Advising

Student	Date	Thesis topic
Cross, K.	May 2009	Hamstring Injuries in NCAA Soccer
Kalantarinia, K.	July 2008	Albuminuria, Endothelial Dysfunction and Low-Grade Inflammation in Adult Type 2 Diabetic Individuals
Keeley, E.	July 2008	Chemokines and Neovascularization in Coronary Artery Disease
McCulloch, M.	May 2007	Retrospective Evaluation of Post-Operative Chylothorax Development in Pediatric Patients Undergoing Surgery for Congenital Heart Disease
Ferguson, J.	May 2007	Out-of Hospital Advanced Life Support Care in Medically Underserved Areas in Virginia
Shimkus, J.	July 2006	Pregnancy (Planned or Unplanned) in the US Navy: Is there an effect on unit readiness in the operational setting?
Salerno, R.	May 2004	Prediction of Outcome in Pediatric Traumatic Brain Injury
Yu, Hong	May, 2003	Evaluating Healthcare Cost of Obese Patients with Type 2 Diabetes Mellitus
Larew, Katherine	May, 1999	Enterococcal <i>E. Coli</i> in Northeastern Brazil: Association with Increased Morbidity
Moore, Sean	May, 1998	Secular trends in epidemiology in diarrhea and malnutrition among children in an urban Brazilian slum, 1989 to 1996

C. Ph.D. Thesis Committees

Doctoral Students	Degree Date	Department
Lisa Letzkus	2015	School of Nursing, UVA
Suzanne DeLong	2012	Systems Engineering, UVA
Yanqing Hu	2011	Statistics, College of Arts and Sciences, UVA
Kevin Cross	2011	Kinesthesiology, Curry School of Education
Gretchen Falk	2011	Statistics, College of Arts and Sciences, UVA
Hongjian Zhu	2010	Statistics, College of Arts and Sciences, UVA
Damon Swift	2010	Exercise Physiology, Curry School of Education, UVA
Nolan Wages	2010	Statistics, College of Arts and Sciences, UVA
Yan Liu	2010	Statistics, College of Arts and Sciences, UVA
Liang Liang Duan	2010	Statistics, College of Arts and Sciences, UVA
Youngsook Jean	2009	Statistics, College of Arts and Sciences, UVA

Xin Wang	2009	Statistics, College of Arts and Sciences, UVA
Marisela Rodriguez	2008	Microbiology, School of Medicine, UVA
Gwise, Thomas	2005	Statistics, College of Arts and Sciences, UVA
Soukup, Mat	2004	Statistics, College of Arts and Sciences, UVA
Buot, Max	2003	Statistics, College of Arts and Sciences, UVA
Boyden, Kathleen	2003	School of Nursing, UVA
Kavis, Aliye	2002	Statistics, College of Arts and Sciences, UVA
Tan, Xiaofang	1997	Statistics, College of Arts and Sciences, UVA
Carpenter, S.	1990	Chemistry, U. of Iowa
Hariharan, S.	1989	Marketing, U. of Iowa
Al-Bakri, A.	1989	Civil Engineering, U. of Iowa
Pillers, C.	1989	Statistics, U of Iowa
O’Gorman, T.	1988	Biostatistics, U. of Iowa
Bae, H.	1988	Education and Measurement, U. of Iowa

Teaching

1. Full semester Courses

A. University of Virginia

Semester	Course	Title
Spring 2018	PHS 7310	Clinical Trials Methodology, secondary instructor, co-taught with Gina Petroni, PhD.
Spring 2014	MICR 8380	Practical Uses of Biostatistics.
Spring 2013	MICR 8380	Practical Uses of Biostatistics. Co-taught with Dr Anjeanette Roberts, Dept of Microbiology, UVA.
Spring 2012	MICR 8380	Practical Uses of Biostatistics (2 sections). Co-taught with Dr Anjeanette Roberts, Dept of Microbiology, UVA and Dr. Kevin Lynch, Dept of Pharmacology, UVA.
Fall 2011	STAT 5310	Clinical Trial Methodology (joint with Professor Hu, Department of Statistics, UVA)
Spring 2011	MICR 8380	Practical Uses of Biostatistics (joint with Professor Roberts, Dept of Microbiology, UVA)
Fall, 2009	STAT 5310	Clinical Trial Methodology (joint with Professor Hu, Department of Statistics, UVA)
Fall, 2008	MICR 8380	Practical Uses of Biostatistics (joint with Professor Roberts, Dept of Microbiology, UVA)
Spring, 2008	MICR 8380	Practical Uses of Biostatistics (joint with Professor Roberts, Dept of Microbiology, UVA)
Fall, 2006	STAT 531	Clinical Trial Methodology
Fall, 2005	PHS 700	Introduction to Biostatistics
Fall, 2004	PHS 700	Introduction to Biostatistics
Spring 2004	STAT 531	Clinical Trial Methodology
Spring, 2002	STAT 531	Clinical Trial Methodology

Fall, 2000	STAT 512	Applied Linear Models
Spring, 2000	STAT 531	Clinical Trial Methodology
Fall, 1998	STAT 722	Advanced Mixed Models
Spring, 1997	STAT 832	Topics in Biostatistics

Independent Study at UVa:

Semester	Course	Title
Fall, 2015	STAT8995	Directed Reading (M. Salerno)
Fall, 2003	STAT 895	Directed Reading (T. Gwise)
Spring, 2001	STAT 895	Directed Reading (K. Chan)
Fall, 2000	STAT 895	Directed Reading (K. Chan)

Guest Lectures in other courses at UVa:

Semester	Course	Lectures/weeks	Time
Fall 2018	STAT4995	1 class as consultant	1.5 class hours total
Spring 2017	STAT4995	2 classes as consultant	3 class hours total
Spring 2010	PHS751	Lecture and paper Session: Week 1: Linear Regression Week 9: Missing Data	4 Classes total, 1.5 class hours each
Spring 2009	PHS 751	Lecture and paper Session: Week 1: Linear Regression Week 9: Missing Data	4 Classes total, 1.5 class hours each
Spring 2008	PHS 751	Lecture and paper Session: Week 1: Linear Regression	2 Classes total, 1.5 class hours each
Spring 2007	PHS 751	Lecture and paper Session: Week 1: Linear Regression Week 2: Prediction Week 3: ANOVA	6 Classes total, 1.5 class hours each
Spring 2006	PHS 751	Lecture and paper Session: Week 1: Linear Regression Week 2: Prediction Week 3: ANOVA	6 Classes total, 1.5 class hours each
Spring 2005	PHS 751	Lecture and paper Session: Week 1: Linear Regression Week 5: Logistic Regression and Survival Analysis	2 Classes total, 1.5 class hours each

B. Duke University (full semester courses)

Semester	Course	Title
Spring, 1995	BTP 219	Categorical Data Analysis
Fall, 1995	BTP 226	Categorical Data Analysis

C. Harvard University (full semester)

Semester	Course	Title
Fall, 1989		Introduction to Biostatistics

D. University of Iowa (full semester)

Semester	Course	Title
Fall, 1990	S:002	Statistics and Society
Spring, 1990	S:002	Statistics and Society
	S:220	Categorical Data Analysis
Spring, 1988	S:120	Probability and Statistics
	S:152	Applied Linear Regression
Fall, 1987	S:101	Biostatistics
	S:152	Applied Linear Regression
Spring, 1987	S:220	Categorical Data Analysis
	S:101	Biostatistics
Fall, 1986	S:161	Applied Multivariate Analysis
	S:152	Applied Linear Regression
Spring, 1986	S:120	Probability and Statistics
	S:158	Experimental Design
Fall, 1985	S: 120	Probability and Statistics
	S:152	Applied Linear Regression

E. Lectures in resident training series, short courses in Biostatistics

Courses with asterisks are those for which I helped develop the curriculum, as well as delivering one of the lectures in the series.

Semester	Topic	Date	Series
Fall, 2011	Introduction to Biostatistics	October 4, 2011	PHS/Faculty Development Clinical Investigation Series
Fall, 2010	Basic Statistical Concepts	September 15, 2010	MTPCI Lecture Series
	Endpoints in Clinical Studies	December 12, 2010	MTPCI Lecture Series
Fall, 2009	Endpoints in Clinical Studies	December 8, 2009	MTPCI Lecture Series
Fall, 2008	Endpoints in Clinical Studies	December 5, 2008	MTPCI Lecture Series
Fall, 2007	Basic Statistical Concepts	July 20, 2007	PM&R Resident Lecture Series
	Endpoints in Clinical Studies	December 4, 2007	MTPCI Lecture Series

Semester	Topic	Date	Series
Fall, 2006	Experimental Design	September 26, 2006	MTPCI Lecture Series
	Endpoints in Clinical Studies	December 12, 2006	MTPCI Lecture Series
	Randomized Clinical Trials	October 1, 2006	Internal Medicine Resident Lecture Series*
Fall, 2005	Basic Statistical Concepts	August 30, 2005	PM&R Resident Lecture Series
	Randomized Clinical Trials	October 28, 2005	Internal Medicine Resident Lecture Series*
Spring, 2005	Randomized Clinical Trials	May 17, 2005	Radiation Oncology Resident Lecture Series*
Fall 2004	Basic Statistical Concepts	August 4, 2004	PM&R Resident Training Lecture Series
Fall, 2002	DOE/Repeated Measures	October 15, 2002	B&E Short course*
Spring, 2002	DOE/ Repeated Measures*	April 15, 2002	B&E Short course
Fall, 2001	DOE/ Repeated Measures*	October 1, 2001	B&E Short course
Spring, 2001	DOE/ Repeated Measures*	May 7, 2001	B&E Short course
Fall, 2000	DOE/ Repeated Measures*	October 2, 2000	B&E Short course
Spring 2000	Design of Experiments	March 27, 2000	B&E Short course
	Repeated Measures	April 3, 2000	
Fall, 1999	Design of Experiments	October 3, 1999	B&E Short course
	Repeated Measures	October 10, 1999	
Spring, 1999	Design of Experiments	March 22, 1999	B&E Short course
	Repeated Measures	April 5, 1999	

Semester	Topic	Date	Series
Fall, 1998	Design of Experiments	October 5, 1998	B&E Short course
	Repeated Measures	October 12, 1998	
Spring, 1998	Design of Experiments	March 23, 1998	B&E Short course
	Repeated Measures	March 30, 1998	
Fall, 1997	Statistical Inference I	November 11, 1997	B&E Short course
	Repeated Measures	December 8, 1997	
Summer, 1997	Statistical Inference I	August 11, 1997	B&E Short course
	Statistical Inference II	August 18, 1997	
	Design of Experiments	September 8, 1997	
	Repeated Measures	September 15, 1997	
Spring, 1997	Design of Experiments	June 9, 1997	B&E Short course
	Repeated Measures	June 16, 1997	
Winter, 1997	Design of Experiments	March 3, 1997	B&E Short course

3. Other Teaching Activities

A. Introduction to Clinical Investigation Training Course (GCRC)

“Designing Experiments”

- October, 2000
- October, 2001
- October, 2002
- September, 2010

Choosing Endpoints in Clinical Studies

- December, 2006
- December, 2007
- December, 2008
- December 2009

B. DHES Masters’ Program “Review of Quantitative Methods”

- Algebra Module, August, 2000

C. DHES Fellows’ Course: Comprehensive Introduction to Clinical Investigation

- Experimental Design and Analysis. July, 2001

D. Faculty, ERRIS Intensive Grant Writing Workshop, annual 2001-2010

F. American Academy of Cerebral Palsy and Developmental Medicine (AACPDM)

- Instructional Course. Guide to Common Statistical Analyses in Clinical Research (with Dr. P. Rosenbaum). September, 2002, New Orleans, LA

- Pre-Conference Workshop. Methods for Comparative Effectiveness Studies (with S Ramey, S DeLuca and A Darragh), 2018, Cincinnati, OH

G. Podcasts for the journal *Neurology*

- October 6, 2009. Nonparametric tests
- November 3, 2009. Sensitivity and Specificity
- March 11, 2010. Risk and rates
- March 11, 2010. Relative risk, relative risk reduction and absolute risk reduction
- March 11, 2010. Probability, Odds and Odds Ratio

H. Workshop in Randomized Clinical Trials in Education Research

- Curry School of Education, May 17-18, 2010

I. ASCO Pre-Meeting Workshop in Contemporary Early Phase Clinical Trials,

- Chicago, May 31- June 1, 2012
- Chicago, May 31- June 1, 2013

J. AACR Methods Workshop: Clinical Trials

- Chicago, May 14, 2018

H. UVA THRIV Scholars Program

- Fall, 2018