

# CURRICULUM VITAE

## David J. Couper

### Address

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### Education

**University of Washington**, Seattle, Washington, U.S.A.

Ph.D., Biostatistics, 1994

M.S., Biostatistics, 1991

Dissertation advisor: Margaret Sullivan Pepe, Ph.D.

Title of dissertation: Complementing survival analysis with analysis of the mean function of longitudinal data subject to censoring.

**University of South Africa**, Pretoria, South Africa

M.Sc., Statistics, 1982 (degree awarded with distinction)

**University of Cape Town**, Cape Town, South Africa

B.Sc.(Hons), Mathematical Statistics, 1977 (degree awarded in the First Class)

B.Sc., 1975 (distinction in Mathematics and the degree awarded with distinction)

### Experience

**Department of Biostatistics**, University of North Carolina at Chapel Hill

July 2005 – present: Deputy Director of the Collaborative Studies Coordinating Center (Interim Co-Director for 9 months, 2011-2012; Interim Director 2021)

January 2013 – present: Professor

February 2005 – December 2012: Research Associate Professor

August 1998 – January 2005: Research Assistant Professor

The position is in the **Collaborative Studies Coordinating Center**

Major current and past projects:

Principal Investigator of the Coordinating Center for the NHLBI-funded Atherosclerosis Risk in Communities (ARIC) Study – Investigator since 1998, PI since 2011; also funded on various ARIC ancillary studies, including having been coordinating center PI for ARIC's genome-wide association studies.

Principal Investigator of the Coordinating Center for the NHLBI-, NINDS- and NEI-funded Atherosclerosis Risk in Communities Study Neurocognitive Study (ARIC-NCS) – 2011 to present.

Principal Investigator of the Genomics and Informatics Center for the NHLBI-funded Subpopulations and Intermediate Outcome Measures In COPD Study (SPIROMICS) – Investigator since 2009, PI since 2011.

Principal Investigator of the Coordinating Center for the Aging, Cognition, and Hearing Evaluation in Elders (ACHIEVE) Randomized Trial – 2018 to present.

Co-Principal Investigator of the Data, Modeling, and Coordination Center for the NHLBI's Precision Interventions for Severe and/or Exacerbation Prone Asthma (PrecISE) Network 2017-2018.

Principal Investigator of the Data Coordinating Center for the NIDDK-funded Predicting Response to Standardized Pediatric Colitis Therapy (PROTECT) Study – 2011-2013.

Principal Investigator of the Data Coordinating and Analysis Center for the Multiple Sclerosis Pediatric Centers of Excellence Network – 2008-2010.

Principal Investigator of the Data and Statistical Coordinating Center for the NIDCR-funded Maternal Oral Therapy to Reduce Obstetric Risk (MOTOR) Study – 2003-2010.

Principal Investigator of the Data Coordinating Center for the UAE-UNC Indoor Air, Health, and Nutrition Study for the final few months (2010).

Co-Principal Investigator of the Data and Statistical Coordinating Center for the NIDCR-funded Periodontitis and Vascular Events (PAVE) Study – 2001-2006.

Co-Principal Investigator of the Data Coordinating Center for the NIDDK-funded Randomized Intervention for Children with Vesicoureteral Reflux (RIVUR) – 2008-2011.

Investigator on the NIAAA-funded Combining Medications and Behavioral Interventions (COMBINE) Study – 1998 to 2007 (Principal Investigator of the Data Coordinating Center for final few months)

Principal Investigator of the Coordinating Center for the NIAAA-funded Cost Effectiveness of Behavioral and Pharmacotherapy for Alcoholism Study (a large ancillary study to the COMBINE Study) – 2000 to 2007

Teaching duties: Teaching BIOS662 (Intermediate Statistical Methods) 2009-present. Taught or co-teaching BIOS668 (Design of Public Health Studies) 2002-2014. Taught BIOS663 (Intermediate Linear Models) in 2001.

Doctoral committees: Co-advisor for Noorie Hyun (Ph.D., Biostatistics, 2014), advisor for Meagan Clement (Dr.P.H., Biostatistics, 2008) and served on the doctoral committees of the following students: Karen Kesler (Biostatistics), Banu Cakir (Epidemiology), Luenda Charles (Epidemiology), Rebecca Din-Dzietham (Epidemiology), Paul Eke (Epidemiology), Anne-Marie Meyer (Epidemiology), Obi Melekwe (School of Nursing), Eunhee Kim (Biostatistics), Se Hee Kim (Biostatistics), So Young Kim (Biostatistics), Hongtao Zhang (Biostatistics), Pourab Roy (Biostatistics), Ada Al Qunaibet (Epidemiology), Jacob Mota (Human Movement Science).

**Menzies Centre for Population Health Research**, University of Tasmania, Hobart, Australia

February 1994 – July 1998

Senior Biostatistician

Responsibilities included: collaborating with epidemiologists and other researchers at the Menzies Centre; providing a limited consulting service to researchers in the University of Tasmania's School of Health Science (including the Medical School) and to the larger medical community in Tasmania; providing statistical support to the Tasmanian Cancer Registry, which is housed in the Menzies Centre; coordinating a weekly tutorial/discussion group for Menzies Centre researchers and graduate students; and giving lectures on statistics and epidemiology to undergraduate medical students.

**Department of Statistics, University of South Africa, Pretoria, South Africa**

January 1986 – February 1994 (on sabbatical leave and then unpaid leave from April 1990 through June 1993)

Senior Researcher / Senior Lecturer

Taught advanced undergraduate courses in probability theory and stochastic processes.

On leave from April 1990 through May 1993 while studying at the University of Washington.

**Department of Biostatistics, University of Washington**

April 1990 – June 1993 (while on sabbatical leave and then unpaid leave from University of South Africa)

Research Assistant, then Teaching Assistant

Teaching assistant for Biostatistics/Epidemiology graduate courses in survival analysis and logistic regression and Biostatistics/Statistics graduate course in Advanced Applied Statistics.

**Department of Business Science, University of Cape Town, Cape Town, South Africa**

August 1983 - December 1985

Lecturer

Taught undergraduate courses in Applied Business Statistics and Management Science.

**Institute for Maritime Technology, Simonstown, South Africa**

June 1982 - July 1983

Statistics/Operations Research Technologist

Major work involved developing a simulation model for naval officers to use to determine the “best” strategy for dealing with anti-ship missiles. (This was just after Argentinian missiles had inflicted heavy losses on Britain’s Royal Navy in the battle for the Falkland Islands.)

**Department of Statistics & Operations Research, University of South Africa, Pretoria, S.A.**

January 1980 - May 1982

Lecturer

Taught undergraduate courses in simulation, linear programming and stochastic processes.

**Other experience/duties:**

2018-2021: Serving on the NIH’s National Advisory Dental and Craniofacial Research Council.

Currently serving on the North Carolina Translational and Clinical Sciences (TraCS) Institute’s Data and Safety Monitoring Board (formerly the UNC School of Medicine’s DSMB) (since 2005) and on the DSMBs for two trials funded by NIAMS and one trial funded by the NIA. Previously served on the DSMB for the NIDDK-funded LIFE Moms study and on a DSMB for a couple of studies funded by the Bill & Melinda Gates Foundation.

Manuscript reviewing for *Circulation*, *JAMA*, *JAMA Network Open*, *PLOS ONE*, *JAMA*, *the Journal of the American College of Cardiology (JACC)*, *the American Journal of Epidemiology*, *the Journal of Periodontology*, *Statistics in Medicine* and sundry others.

Service on various NIH and VA review panels, primarily for NHLBI and NIAMS.

2009-2018: On the International Expert Panel of grant reviewers for Singapore’s National Medical Research Council.

Have also done proposal reviewing for California's Tobacco-Related Disease Research Program and for the *Deutsche Forschungsgemeinschaft* (German Research Foundation).

## Membership of professional societies / associations

American Statistical Association

International Biometric Society (Eastern North American Region), served on ENAR's Regional Advisory Board 2011-2013

The Society for Clinical Trials

American Heart Association

## Book chapter

1. Rosamond W., Couper D. (2020) Ascertainment and Classification of Outcomes. In: Piantadosi S., Meinert C. (eds) Principles and Practice of Clinical Trials. Springer, Cham, Switzerland.

## Publications in refereed journals (most recent first, in order given on PubMed)

See additional list below for manuscripts in which I am listed as part of a consortium rather than being listed individually.

1. Fawzy A, Woo H, Balasubramanian A, Barjaktarevic I, Barr RG, Bowler RP, Comellas AP, Cooper CB, Couper D, Criner GJ, Dransfield MT, Han MK, Hoffman EA, Kanner RE, Krishnan JA, Martinez FJ, McCormack M, Paine Iii R, Peters S, Wise R, Woodruff PG, Hansel NN, Putcha N. Polycythemia is Associated with Lower Incidence of Severe COPD Exacerbations in SPIROMICS Study. *Chronic Obstr Pulm Dis*. 2021 Jun 30. Online ahead of print.
2. Hu JK, Chan KCG, Couper DJ, Breslow NE. Estimating the hazard rate difference from case-cohort studies. *Eur J Epidemiol*. 2021 Jun 14. Online ahead of print.
3. Wright JD, Folsom AR, Coresh J, Sharrett AR, Couper D, Wagenknecht LE, Mosley TH Jr, Ballantyne CM, Boerwinkle EA, Rosamond WD, Heiss G. The ARIC (Atherosclerosis Risk In Communities) Study: JACC Focus Seminar 3/8. *J Am Coll Cardiol*. 2021 Jun 15;77(23):2939-2959.
4. Zou C, Li F, Choi J, Haghghi B, Choi S, Rajaraman PK, Comellas AP, Newell JD, Lee CH, Barr RG, Bleecker E, Cooper CB, Couper D, Han M, Hansel NN, Kanner RE, Kazerooni EA, Kleeerup EC, Martinez FJ, O'Neal W, Paine R 3rd, Rennard SI, Smith BM, Woodruff PG, Hoffman EA, Lin CL. Longitudinal Imaging-Based Clusters in Former Smokers of the COPD Cohort Associate with Clinical Characteristics: The SubPopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS). *Int J Chron Obstruct Pulmon Dis*. 2021 May 31;16:1477-1496. PMID: PMC8178702
5. Bellows BK, Zhang Y, Zhang Z, Lloyd-Jones DM, Bress AP, King JB, Kolm P, Cushman WC, Johnson KC, Tamariz L, Oelsner EC, Shea S, Newman AB, Ives DG, Couper D, Moran AE, Weintraub WS. Estimating Systolic Blood Pressure Intervention Trial Participant Posttrial Survival Using Pooled Epidemiologic Cohort Data. *J Am Heart Assoc*. 2021 May 18;10(10):e020361. *Chronic Obstr Pulm Dis*. 2021 Apr 27;8(2):277-291.PMCID: PMC8200698
6. Pratte KA, Curtis JL, Kechris K, Couper D, Cho MH, Silverman EK, DeMeo DL, Sciruba FC, Zhang Y, Ortega VE, O'Neal WK, Gillenwater LA, Lynch DA, Hoffman EA, Newell JD Jr, Comellas AP, Castaldi PJ, Miller BE, Pouwels SD, Hacken NHTT, Bischoff R, Klont F, Woodruff PG, Paine R, Barr RG, Hoidal J, Doerschuk CM, Charbonnier JP, Sung R, Locantore N, Yonchuk JG, Jacobson S, Tal-Singer R, Merrill D, Bowler RP. Soluble receptor for advanced glycation end products (sRAGE) as a biomarker of COPD. *Respir Res*. 2021 Apr 27;22(1):127. *Chronic Obstr Pulm Dis*. 2021 Apr 27;8(2):277-291.PMCID: PMC8076883

7. Moughames E, Woo H, Galiatsatos P, Romero-Rivero K, Raju S, Tejwani V, Hoffman EA, Comellas AP, Ortega VE, Parekh T, Krishnan JA, Drummond MB, Couper D, Buhr RG, Paine R, Kaufman JD, Paulin LM, Putcha N, Hansel NN. Disparities in access to food and chronic obstructive pulmonary disease (COPD)-related outcomes: a cross-sectional analysis. *BMC Pulm Med.* 2021 Apr 27;21(1):139. PMID: PMC8077917
8. Zhang WZ, Hoffman KL, Schiffer KT, Oromendia C, Rice MC, Barjaktarevic I, Peters SP, Putcha N, Bowler RP, Wells JM, Couper DJ, Labaki WW, Curtis JL, Han MK, Paine R 3rd, Woodruff PG, Criner GJ, Hansel NN, Diaz I, Ballman KV, Nakahira K, Choi ME, Martinez FJ, Choi AMK, Cloonan SM. Association of plasma mitochondrial DNA with COPD severity and progression in the SPIROMICS cohort. *Respir Res.* 2021 Apr 26;22(1):126. PMID: PMC8074408
9. Kasela S, Ortega VE, Martorella M, Garudadri S, Nguyen J, Ampleford E, Pasanen A, Nerella S, Buschur KL, Barjaktarevic IZ, Barr RG, Bleecker ER, Bowler RP, Comellas AP, Cooper CB, Couper DJ, Criner GJ, Curtis JL, Han MK, Hansel NN, Hoffman EA, Kaner RJ, Krishnan JA, Martinez FJ, McDonald MN, Meyers DA, Paine R 3rd, Peters SP, Castro M, Denlinger LC, Erzurum SC, Fahy JV, Israel E, Jarjour NN, Levy BD, Li X, Moore WC, Wenzel SE, Zein J; NHLBI SubPopulations and Intermediate Outcome Measures In COPD Study (SPIROMICS); NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium, Langelier C, Woodruff PG, Lappalainen T, Christenson SA. Genetic and non-genetic factors affecting the expression of COVID-19-relevant genes in the large airway epithelium. *Genome Med.* 2021 Apr 21;13(1):66. PMID: PMC8059115
10. Wilson WR, Gewitz M, Lockhart PB, Bolger AF, DeSimone DC, Kazi DS, Couper DJ, Beaton A, Kilmartin C, Miro JM, Sable C, Jackson MA, Baddour LM; American Heart Association Young Hearts Rheumatic Fever, Endocarditis and Kawasaki Disease Committee of the Council on Lifelong Congenital Heart Disease and Heart Health in the Young; Council on Cardiovascular and Stroke Nursing; and the Council on Quality of Care and Outcomes Research. Prevention of Viridans Group Streptococcal Infective Endocarditis: A Scientific Statement From the American Heart Association. *Circulation.* 2021 May 18;143(20):e963-e978.
11. Burkes RM, Couper DJ, Barjaktarevic IZ, Cooper CB, Labaki WW, Han MK, Woodruff PG, Lazarus SC, Parekh TM, Paine Iii R, Comellas AP, Bowler RP, Loehr LR, Putcha N, Wise RA, Brown TT, Drummond MB. Age-Dependent Associations Between 25-Hydroxy Vitamin D Levels and COPD Symptoms: Analysis of SPIROMICS. *Chronic Obstr Pulm Dis.* 2021 Apr 27;8(2):277-291. [Free article.]
12. Oelsner EC, Allen NB, Ali T, Anugu P, Andrews H, Asaro A, Balte PP, Barr RG, Bertoni AG, Bon J, Boyle R, Chang AA, Chen G, Cole SA, Coresh J, Cornell E, Correa A, Couper D, Cushman M, Demmer RT, Elkind MSV, Folsom AR, Fretts AM, Gabriel KP, Gallo L, Gutierrez J, Han MK, Henderson JM, Howard VJ, Isasi CR, Jacobs DR, Judd SE, Mukaz DK, Kanaya AM, Kandula NR, Kaplan R, Krishnaswamy A, Kinney GL, Kucharska-Newton A, Lee JS, Lewis CE, Levine DA, Levitan EB, Levy B, Make B, Malloy K, Manly JJ, Meyer KA, Min YI, Moll M, Moore WC, Mauger D, Ortega VE, Palta P, Parker MM, Phipatanakul W, Post W, Psaty BM, Regan EA, Ring K, Roger VL, Rotter JI, Rundek T, Sacco RL, Schembri M, Schwartz DA, Seshadri S, Shikany JM, Sims M, Hinckley Stukovsky KD, Talavera GA, Tracy RP, Umans JG, Vasan RS, Watson K, Wenzel SE, Winters K, Woodruff PG, Xanthakis V, Zhang Y, Zhang Y; C4R Investigators. Collaborative Cohort of Cohorts for COVID-19 Research (C4R) Study: Study Design. *medRxiv.* 2021 Mar 20:2021.03.19.21253986. PMID: PMC7987050 [Preprint.]
13. Hayes C, Douglass CW, Kim FM, Burgard SL, Couper D; National Osteosarcoma Etiology Group. A case-control study of topical and supplemental fluoride use and osteosarcoma risk. *J Am Dent Assoc.* 2021 May;152(5):344-353.e10.
14. Turnier L, Eakin M, Woo H, Dransfield M, Parekh T, Krishnan JA, Kanner R, Cooper CB, Woodruff PG, Wise R, Han MK, Romero K, Paulin LM, Peters S, Drummond B, Bleecker ER, Bowler R, Comellas AP, Couper D, Paine R, Martinez F, Barr G, Putcha N, Hansel NN. The influence of social support on COPD outcomes mediated by depression. *PLoS One.* 2021 Mar 17;16(3):e0245478. PMID: PMC7968645

15. Li F, Choi J, Zou C, Newell JD Jr, Comellas AP, Lee CH, Ko H, Barr RG, Bleecker ER, Cooper CB, Abtin F, Barjaktarevic I, Couper D, Han M, Hansel NN, Kanner RE, Paine R 3rd, Kazerooni EA, Martinez FJ, O'Neal W, Rennard SI, Smith BM, Woodruff PG, Hoffman EA, Lin CL. Latent traits of lung tissue patterns in former smokers derived by dual channel deep learning in computed tomography images. *Sci Rep*. 2021 Mar 1;11(1):4916. PMID: PMC7921389
16. Metcalf PA, Meyer ML, Tanaka H, Agarwal SK, Windham BG, Cheng S, Couper D, Folsom AR, Heiss G. Longitudinal associations of blood pressure with aortic stiffness and pulsatility: the Atherosclerosis Risk in Communities Study. *J Hypertens*. 2021 May 1;39(5):987-993.
17. Opron K, Begley LA, Erb-Downward JR, Freeman C, Madapoosi S, Alexis NE, Barjaktarevic I, Graham Barr R, Bleecker ER, Bowler RP, Christenson SA, Comellas AP, Cooper CB, Couper DJ, Doerschuk CM, Dransfield MT, Han MK, Hansel NN, Hastie AT, Hoffman EA, Kaner RJ, Krishnan J, O'Neal WK, Ortega VE, Paine R 3rd, Peters SP, Michael Wells J, Woodruff PG, Martinez FJ, Curtis JL, Huffnagle GB, Huang YJ. Lung microbiota associations with clinical features of COPD in the SPIROMICS cohort. *NPJ Biofilms Microbiomes*. 2021 Feb 5;7(1):14. PMID: PMC7865064
18. Fortis S, Comellas A, Bhatt SP, Hoffman EA, Han MK, Bhakta NR, Paine R 3rd, Ronish B, Kanner RE, Dransfield M, Hoesterey D, Buhr RG, Barr RG, Dolezal B, Ortega VE, Drummond MB, Arjomandi M, Kaner RJ, Kim V, Curtis JL, Bowler RP, Martinez F, Labaki WW, Cooper CB, O'Neal WK, Criner G, Hansel NN, Krishnan JA, Woodruff P, Couper D, Tashkin D, Barjaktarevic I. Ratio of FEV1 to Slow Vital Capacity of < 0.7 Is Associated With Clinical, Functional, and Radiologic Features of Obstructive Lung Disease in Smokers With Preserved Lung Function. *Chest*. 2021 Feb 1:S0012-3692(21)00229-4. [Online ahead of print.]
19. Gianattasio KZ, Bennett EE, Wei J, Mehrotra ML, Mosley T, Gottesman RF, Wong DF, Stuart EA, Griswold ME, Couper D, Glymour MM, Power MC; Alzheimer's Disease Neuroimaging Initiative. Generalizability of findings from a clinical sample to a community-based sample: A comparison of ADNI and ARIC. *Alzheimers Dement*. 2021 Feb 1. [Online ahead of print.]
20. Dunican EM, Elicker BM, Henry T, Gierada DS, Schiebler ML, Anderson W, Barjaktarevic I, Barr RG, Bleecker ER, Boucher RC, Bowler RP, Christenson SA, Comellas A, Cooper CB, Couper D, Criner GJ, Dransfield M, Doerschuk CM, Drummond MB, Hansel NN, Han MK, Hastie AT, Hoffman EA, Krishnan JA, Lazarus SC, Martinez FJ, McCulloch CE, O'Neal WK, Ortega VE, Paine R 3rd, Peters S, Schroeder JD, Woodruff PG, Fahy JV. Mucus Plugs and Emphysema in the Pathophysiology of Airflow Obstruction and Hypoxemia in Smokers. *Am J Respir Crit Care Med*. 2021 Apr 15;203(8):957-968.
21. Burkes RM, Ceppe AS, Couper DJ, Comellas AP, Wells JM, Peters SP, Criner GJ, Kanner RE, Paine R 3rd, Christenson SA, Cooper CB, Barjaktarevic IZ, Krishnan JA, Labaki WW, Han MK, Curtis JL, Hansel NN, Wise RA, Drummond MB; SPIROMICS collaborators. Plasma Cathelicidin is Independently Associated with Reduced Lung Function in COPD: Analysis of the Subpopulations and Intermediate Outcome Measures in COPD Study Cohort. *Chronic Obstr Pulm Dis*. 2020 Oct;7(4):370-381. [Free article]
22. Ejike CO, Woo H, Galiatsatos P, Paulin LM, Krishnan JA, Cooper CB, Couper DJ, Kanner RE, Bowler RP, Hoffman EA, Comellas AP, Criner GJ, Barr RG, Martinez FJ, Han MK, Martinez CH, Ortega VE, Parekh TM, Christenson SA, Thakur N, Baugh A, Belz DC, Raju S, Gasset AJ, Kaufman JD, Putcha N, Hansel NN. Contribution of Individual and Neighborhood Factors to Racial Disparities in Respiratory Outcomes. *Am J Respir Crit Care Med*. 2021 Apr 15;203(8):987-997.
23. Cooper CB, Paine R, Curtis JL, Kanner RE, Martinez CH, Meldrum CA, Bowler R, O'Neal W, Hoffman EA, Couper D, Quibrera M, Criner G, Dransfield MT, Han MK, Hansel NN, Krishnan JA, Lazarus SC, Peters SP, Barr RG, Martinez FJ, Woodruff PG; SPIROMICS investigators. Novel Respiratory Disability Score Predicts COPD Exacerbations and Mortality in the SPIROMICS Cohort. *Int J Chron Obstruct Pulmon Dis*. 2020 Aug 4;15:1887-1898. PMID: PMC7417644

24. Lin DY, Zeng D, Couper D. A general framework for integrative analysis of incomplete multiomics data. *Genet Epidemiol.* 2020 Oct;44(7):646-664.
25. Lamichhane AP, Couper D, Jenkins GP, Stevens J. Longitudinal Associations Between Body Mass Index During Young Adulthood, Subsequent Weight Change, and Incident Diabetes During Mid- and Older-Adulthood in Non-Hispanic White and African American Populations: The Atherosclerosis Risk in Communities Study. *Metab Syndr Relat Disord.* 2020 Sep;18(7):313-320.
26. Smith BM, Kirby M, Hoffman EA, Kronmal RA, Aaron SD, Allen NB, Bertoni A, Coxson HO, Cooper C, Couper DJ, Criner G, Dransfield MT, Han MK, Hansel NN, Jacobs DR Jr, Kaufman JD, Lin CL, Manichaikul A, Martinez FJ, Michos ED, Oelsner EC, Paine R 3rd, Watson KE, Benedetti A, Tan WC, Bourbeau J, Woodruff PG, Barr RG; MESA Lung, CanCOLD, and SPIROMICS Investigators. Association of Dysanapsis With Chronic Obstructive Pulmonary Disease Among Older Adults. *JAMA.* 2020 Jun 9;323(22):2268-2280.
27. Yeap BB, Marriott RJ, Adams RJ, Antonio L, Ballantyne CM, Bhasin S, Cawthon PM, Couper DJ, Dobs AS, Flicker L, Karlsson M, Martin SA, Matsumoto AM, Mellström D, Norman PE, Ohlsson C, Orwoll ES, O'Neill TW, Shores MM, Travison TG, Vanderschueren D, Wittert GA, Wu FCW, Murray K. Androgens In Men Study (AIMS): protocol for meta-analyses of individual participant data investigating associations of androgens with health outcomes in men. *BMJ Open.* 2020 May 11;10(5):e034777. PMID: PMC7239545.
28. Kim FM, Hayes C, Burgard SL, Kim HD, Hoover RN; National Osteosarcoma Etiology Group, Douglass CW, Couper D. A Case-Control Study of Fluoridation and Osteosarcoma. *J Dent Res.* 2020 Sep;99(10):1157-1164.
29. Balte PP, Chaves PHM, Couper DJ, Enright P, Jacobs DR Jr, Kalhan R, Kronmal RA, Loehr LR, London SJ, Newman AB, O'Connor GT, Schwartz JE, Smith BM, Smith LJ, White WB, Yende S, Oelsner EC. Association of Nonobstructive Chronic Bronchitis With Respiratory Health Outcomes in Adults. *JAMA Intern Med.* 2020 May 1;180(5):676-686. PMID: PMC7052787
30. Burkes RM, Ceppe AS, Doerschuk CM, Couper D, Hoffman EA, Comellas AP, Barr RG, Krishnan JA, Cooper C, Labaki WW, Ortega VE, Wells JM, Criner GJ, Woodruff PG, Bowler RP, Pirozzi CS, Hansel NN, Wise RA, Brown TT, Drummond MB; SPIROMICS Investigators. Associations Among 25-Hydroxyvitamin D Levels, Lung Function, and Exacerbation Outcomes in COPD: An Analysis of the SPIROMICS Cohort. *Chest.* 2020 Apr;157(4):856-865. PMID: PMC7118244
31. Barjaktarevic IZ, Buhr RG, Wang X, Hu S, Couper D, Anderson W, Kanner RE, Paine Iii R, Bhatt SP, Bhakta NR, Arjomandi M, Kaner RJ, Pirozzi CS, Curtis JL, O'Neal WK, Woodruff PG, Han MK, Martinez FJ, Hansel N, Wells JM, Ortega VE, Hoffman EA, Doerschuk CM, Kim V, Dransfield MT, Drummond MB, Bowler R, Criner G, Christenson SA, Ronish B, Peters SP, Krishnan JA, Tashkin DP, Cooper CB; NHLBI SubPopulations and Intermediate Outcome Measures In COPD Study (SPIROMICS). Clinical Significance of Bronchodilator Responsiveness Evaluated by Forced Vital Capacity in COPD: SPIROMICS Cohort Analysis. *Int J Chron Obstruct Pulmon Dis.* 2019 Dec 20;14:2927-2938. PMID: PMC6930016
32. Wells JM, Xing D, Viera L, Burkes RM, Wu Y, Bhatt SP, Dransfield MT, Couper DJ, O'Neal W, Hoffman EA, Gaggar A, Barjaktarevic I, Curtis JL, Labaki WW, Han MLK, Freeman CM, Putcha N, Schlange T, Blalock JE; SPIROMICS Investigators. The matrikine acetyl-proline-glycine-proline and clinical features of COPD: findings from SPIROMICS. *Respir Res.* 2019 Nov 12;20(1):254. doi: 10.1186/s12931-019-1230-8. PMID: PMC6852714
33. Ortega VE, Li X, O'Neal WK, Lackey L, Ampleford E, Hawkins GA, Grayeski PJ, Laederach A, Barjaktarevic I, Barr RG, Cooper C, Couper D, Han MK, Kanner RE, Kleerup EC, Martinez FJ, Paine Iii R, Peters SP, Pirozzi C, Rennard SI, Woodruff PG, Hoffman EA, Meyers DA, Bleecker ER; NHLBI Subpopulations and Intermediate Outcomes Measures in COPD Study (SPIROMICS). The Effects of Rare

SERPINA1 Variants on Lung Function and Emphysema in SPIROMICS. *Am J Respir Crit Care Med.* 2020 Mar 1;201(5):540-554. PMC7047460

34. Tin A, Yu B, Ma J, Masushita K, Daya N, Hoogeveen RC, Ballantyne CM, Couper D, Rebholz CM, Grams ME, Alonso A, Mosley T, Heiss G, Ganz P, Selvin E, Boerwinkle E, Coresh J. Reproducibility and Variability of Protein Analytes Measured Using a Multiplexed Modified Aptamer Assay. *J Appl Lab Med.* 2019 Jul;4(1):30-39. doi: 10.1373/jalm.2018.027086. PMC6814271
35. Oelsner EC, Balte PP, Bhatt SP, Cassano PA, Couper D, Folsom AR, Freedman ND, Jacobs DR Jr, Kalhan R, Mathew AR, Kronmal RA, Loehr LR, London SJ, Newman AB, O'Connor GT, Schwartz JE, Smith LJ, White WB, Yende S. Lung function decline in former smokers and low-intensity current smokers: a secondary data analysis of the NHLBI Pooled Cohorts Study. *Lancet Respir Med.* 2020 Jan;8(1):34-44.
36. Arjomandi M, Zeng S, Barjaktarevic I, Barr RG, Bleecker ER, Bowler RP, Buhr RG, Criner GJ, Comellas AP, Cooper CB, Couper DJ, Curtis JL, Dransfield MT, Han MK, Hansel NN, Hoffman EA, Kaner RJ, Kanner RE, Krishnan JA, Paine R 3rd, Peters SP, Rennard SI, Woodruff PG; SPIROMICS Investigators. Radiographic lung volumes predict progression to COPD in smokers with preserved spirometry in SPIROMICS. *Eur Respir J.* 2019 Oct 31;54(4). pii: 1802214. doi: 10.1183/13993003.02214-2018.
37. Loehr LR, Soliman EZ, Poon AK, Couper D, Chen LY, Mosley TH, Wagenknecht LE, Whitsel EA, Alonso A, Wruck L, Heiss G. The prevalence of atrial fibrillation on 48-hour ambulatory electrocardiography in African Americans compared to Whites: The Atherosclerosis Risk in Communities (ARIC) study. *Am Heart J.* 2019 Oct;216:1-8. doi: 10.1016/j.ahj.2019.06.017. PMC6842681
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**Consortium publications (with my name listed under a consortium rather than individually) in refereed journals** (most recent first, in order given on PubMed)

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