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Assembly on Environmental, Occupational, and Population Health Newsletter

EOPH

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Dear EOPH members,

We cannot believe it is already Fall! In this September issue of the EOPH newsletter, we share some of our members' recent "epub ahead of print" articles. Please let us know about your recent publications, awards, and achievements. Also, we would appreciate suggestions or feedback for future issues at tara.nordgren@medsch.ucr.edu.

Sincerely,

Your Web Editorial Committee Director and co-Chair,

Tara Nordgren and Anna Nolan



Recent publications

This section highlights some of our assembly members' exciting research that was recently 'e-published.' It is possible that our search may miss your best work, so please send your recent publications to tara.nordgren@medsch.ucr.edu.

Air Quality, Pollution, and Environmental Exposures

Non-Communicable Respiratory Disease and Air Pollution Exposure in Malawi (CAPS): A Cross-Sectional Study.

Nightingale R, Lesosky M, Flitz G, Rylance SJ, Meghji J, Burney P, Balmes J, Mortimer K.
Am J Respir Crit Care Med. 2018 Aug 24. doi: 10.1164/rccm.201805-0936OC. [Epub ahead of print] PMID: 30141966

Low-level ozone has both respiratory and systemic effects in African American adolescents with asthma despite asthma controller therapy.

Hernandez ML, Dhingra R, Burbank AJ, Todorich K, Loughlin CE, Frye M, Duncan K, Robinette C, Mills K, Devlin RB, Peden DB, Diaz-Sanchez D.
J Allergy Clin Immunol. 2018 Aug 10. pii: S0091-6749(18)31138-2. doi: 10.1016/j.jaci.2018.08.003. [Epub ahead of print]
No abstract available. PMID: 30102937

Low to Moderate Air Pollutant Exposure and Acute Respiratory Distress Syndrome after Severe Trauma.

Reilly JP, Zhao Z, Shashaty MGS, Koyama T, Christie JD, Lanken PN, Wang C, Balmes JR, Matthay MA, Calfee CS, Ware LB.
Am J Respir Crit Care Med. 2018 Aug 1. doi: 10.1164/rccm.201803-0435OC. [Epub ahead of print]
PMID: 30067389

Synergistic Environmental Exposures and the Airways Capturing Complexity in Humans: An Underappreciated World of Complex Exposures.

Carlsten C.
Chest. 2018 Jun 15. pii: S0012-3692(18)30915-2. doi: 10.1016/j.chest.2018.06.004. [Epub ahead of print] Review.
PMID:29909283

Estimating ambient-origin PM_{2.5} exposure for epidemiology: observations, prediction, and validation using personal sampling in the Multi-Ethnic Study of Atherosclerosis.

Miller KA, Spalt EW, Gasset AJ, Curl CL, Larson TV, Avol E, Allen RW, Vedal S, Szpiro AA, Kaufman JD.
J Expo Sci Environ Epidemiol. 2018 Aug 30. doi: 10.1038/s41370-018-0053-x. [Epub ahead of print]
PMID: 30166581

Effectiveness of a Portable Air Cleaner in Removing Aerosol Particles in Homes Close to Highways.

Cox J, Isiugo K, Ryan P, Grinshpun SA, Yermakov M, Desmond C, Jandarov R, Vesper S, Ross J, Chillrud S, Dannemiller K, Reponen T.
Indoor Air. 2018 Aug 22. doi: 10.1111/ina.12502. [Epub ahead of print]
PMID: 30133950

Artemisia pollen (mugwort) as a major vector for ambient LPS: brothers in harm?

Carlsten C.
J Allergy Clin Immunol. 2018 Sep 10. pii: S0091-6749(18)31283-1. doi: 10.1016/j.jaci.2018.08.034. [Epub ahead of print]
PMID: 30213626

[Air pollution and resistance to inhaled glucocorticoids: Evidence, mechanisms and gaps to fill.](#)

Rider CF, Carlsten C.

Pharmacol Ther. 2018 Aug 20. pii: S0163-7258(18)30143-8. doi: 10.1016/j.pharmthera.2018.08.005. [Epub ahead of print]

Review. PMID: 30138638

Asthma and Allergic Diseases

[Impact of Preeclampsia on the Relationship of Maternal Asthma with Offspring Asthma: An Observation from the VDAART Clinical Trial.](#)

Mirzakhani H, Carey VJ, McElrath TF, Qiu W, Hollis BW, O'Connor GT, Zeiger RS, Bacharier L, Litonjua AA, Weiss ST.

Am J Respir Crit Care Med. 2018 Aug 28. doi: 10.1164/rccm.201804-0770OC. [Epub ahead of print]

PMID: 30153046

[Novel eosinophilic gene expression networks associated with IgE in two distinct asthma populations.](#)

Virkud YV, Kelly RS, Croteau-Chonka DC, Celedón JC, Dahlin A, Avila L, Raby BA, Weiss ST, Lasky-Su JA.

Clin Exp Allergy. 2018 Aug 14. doi: 10.1111/cea.13249. [Epub ahead of print]

PMID: 30107053

[Validation of fitness tracker for sleep measures in women with asthma.](#)

Castner J, Mammen MJ, Jungquist CR, Licata O, Pender JJ, Wilding GE, Sethi S.

J Asthma. 2018 Aug 24;1-12. doi: 10.1080/02770903.2018.1490753. [Epub ahead of print]

PMID: 29972657

Agricultural Exposures

[Organophosphorus pesticide residue levels in homes located near orchards.](#)

Butler-Dawson J, Galvin K, Thorne PS, Rohlman DS.

J Occup Environ Hyg. 2018 Aug 23;1-24. doi: 10.1080/15459624.2018.1515489. [Epub ahead of print]

PMID:30138040

Cellular Mechanisms

[Macrophages from The Upper and Lower Human Respiratory Tract Are Metabolically Distinct.](#)

Lavrich KS, Speen AM, Ghio AJ, Bromberg PA, Samet JM, Alexis NE.

Am J Physiol Lung Cell Mol Physiol. 2018 Aug 9. doi: 10.1152/ajplung.00208.2018. [Epub ahead of print]

PMID:30091382

Community and Population-based Exposure Studies

[A community-based evaluation of proximity to unconventional oil and gas wells, drinking water contaminants, and health symptoms in Ohio.](#)

Elliott EG, Ma X, Leaderer BP, McKay LA, Pedersen CJ, Wang C, Gerber CJ, Wright TJ, Sumner AJ, Brennan M, Silva GS, Warren JL, Plata DL, Deziel NC.

Environ Res. 2018 Aug 17;167:550-557. doi: 10.1016/j.envres.2018.08.022. [Epub ahead of print] PMID: 30145431

Cancer

[Requirement for MUC5AC in KRAS-dependent lung carcinogenesis.](#)

Bauer AK, Umer M, Richardson VL, Cumpian AM, Harder AQ, Khosravi N, Azzegagh Z, Hara NM, Ehre C, Mohebnasab M, Caetano MS, Merrick DT, van Bokhoven A, Wistuba II, Kadara H, Dickey BF, Velmurugan K, Mann PR, Lu X, Barón AE, Evans CM, Moghaddam SJ.

JCI Insight. 2018 Aug 9;3(15). pii: 120941. doi: 10.1172/jci.insight.120941. [Epub ahead of print]

PMID:30089720

[Re: AJE-00608-2018 - On the ongoing discussion about the risk of lung cancer due to diesel engine exhaust.](#)

Chang ET, Lau EC, Van Landingham C, Crump KS, McClellan RO, Moolgavkar SH.

Am J Epidemiol. 2018 Aug 14. doi: 10.1093/aje/kwy167. [Epub ahead of print] No abstract available.

PMID: 30124745

Chronic Obstructive Pulmonary Disease (COPD)

[The Course of Lung Function in Middle-Aged Heavy Smokers: Incidence and Time to Early Onset of COPD.](#)

Petersen H, Sood A, Polverino F, Owen CA, Pinto-Plata V, Celli BR, Tesfaigzi Y.

Am J Respir Crit Care Med. 2018 Aug 16. doi: 10.1164/rccm.201805-0861LE. [Epub ahead of print] No abstract available.

PMID: 30114375

Biomarkers

[A Potential Biomarker for Predicting the Risk of Radiation-Induced Fibrosis in the Lung.](#)

Groves AM, Williams JP, Hernady E, Reed C, Fenton B, Love T, Finkelstein JN, Johnston CJ.

Radiat Res. 2018 Aug 17. doi: 10.1667/RR15122.1. [Epub ahead of print] PMID: 30117783

Prognostics, Diagnostics, Testing, Methodology

[Pulse Oximetry is Insensitive for Detection of Hepatopulmonary Syndrome in Patients evaluated for Liver Transplantation.](#)

Forde KA, Fallon MB, Krowka MJ, Sprys M, Goldberg DS, Krok KL, Patel M, Lin G, Oh JK, Mottram CD, Scanlon PD, Kawut SM; Pulmonary Vascular Complications of Liver Disease 2 (PVCLD2) Study Group.

Hepatology. 2018 Aug 2. doi: 10.1002/hep.30139. [Epub ahead of print] PMID: 30070715

[Quality improvement in neurology.](#)

Rizk H, Agrawal Y, Barthel S, Bennett ML, Doherty JK, Gerend P, Gold DR, Morrill D, Oas JG, Roberts JK, Woodson E, Zapala DA, Bennett A, Shenoy AM.

Neurology. 2018 Aug 31. pii: 10.1212/WNL.0000000000006217. doi: 10.1212/WNL.0000000000006217. [Epub ahead of print] PMID: 30171079

[Quality Improvement in Neurology: Neurology Quality Measurement Set.](#)

Rizk H, Agrawal Y, Barthel S, Bennett ML, Doherty JK, Gerend P, Gold DR, Morrill D, Oas JG, Roberts JK, Woodson E, Zapala DA, Bennett A, Shenoy AM.

Otolaryngol Head Neck Surg. 2018 Aug 31;194599818790947. doi: 10.1177/0194599818790947. [Epub ahead of print]

PMID:30168353

[That's a WRAP: laparoscopic anti-reflux surgery for idiopathic pulmonary fibrosis.](#)

Johannson KA.

Lancet Respir Med. 2018 Sep;6(9):655-657. doi: 10.1016/S2213-2600(18)30330-8. Epub 2018 Aug 9. No abstract available. PMID:30100405

Genetics and Epigenetics

[DNA Methylation Changes in Lung Immune Cells are Associated with Granulomatous Lung Disease.](#)

Yang IV, Konigsberg I, MacPhail K, Li L, Davidson EJ, Mroz PM, Hamzeh N, Gillespie M, Silveira LJ, Fingerlin TE, Maier LA.

Am J Respir Cell Mol Biol. 2018 Aug 24. doi: 10.1165/rcmb.2018-0177OC. [Epub ahead of print] PMID: 30141971

[COPD Genetics: A Riddle Wrapped in a Mystery Inside an Enigma.](#)

Kurche JS, Schwartz DA.

Am J Respir Crit Care Med. 2018 Aug 21. doi: 10.1164/rccm.201808-1465ED. [Epub ahead of print] No abstract available. PMID: 30130126

[Identification of Functional Variants in the FAM13A COPD GWAS Locus by Massively Parallel Reporter Assays.](#)

Castaldi PJ, Guo F, Qiao D, Du F, Naing ZZC, Li Y, Pham B, Mikkelsen TS, Cho MH, Silverman EK, Zhou X.

Am J Respir Crit Care Med. 2018 Aug 4. doi: 10.1164/rccm.201802-0337OC. [Epub ahead of print] PMID:30079747

HIV Patient Care

[Evaluation of a computer-based and counseling support intervention to improve HIV patients' viral loads.](#)

Marks G, O'Daniels C, Grossman C, Crepaz N, Rose CE, Patel U, Stirratt MJ, Gardner LI, Cachay ER, Mathews WC, Drainoni ML, Sullivan M, Bradley-Springer L, Corwin M, Gordon C, Rodriguez A, Dhanireddy S, Giordano TP.

AIDS Care. 2018 Aug 16:1-9. doi: 10.1080/09540121.2018.1510099. [Epub ahead of print] PMID: 30114936

Bronchiolitis

[Circulating 25-hydroxyvitamin D, nasopharyngeal microbiota, and bronchiolitis severity.](#)

Toivonen L, Hasegawa K, Ajami NJ, Celedón JC, Mansbach JM, Petrosino JF, Camargo CA Jr.

Pediatr Allergy Immunol. 2018 Aug 28. doi: 10.1111/pai.12977. [Epub ahead of print] PMID:30152883

Motivations in Seeking Care

[Self-reported Patient Motivations for Seeking Cosmetic Procedures.](#)

Maisel A, Waldman A, Furlan K, Weil A, Sacotte K, Lazaroff JM, Lin K, Aranzazu D, Avram MM, Bell A, Cartee TV, Cazzaniga A, Chapas A, Crispin MK, Croix JA, DiGiorgio CM, Dover JS, Goldberg DJ, Goldman MP, Green JB, Griffin CL, Haimovic AD, Hausauer AK, Hernandez SL, Hsu S, Ibrahim O,

Jones DH, Kaufman J, Kilmer SL, Lee NY, McDaniel DH, Schlessinger J, Tanzi E, Weiss ET, Weiss RA, Wu D, Poon E, Alam M.
JAMA Dermatol. 2018 Aug 15. doi: 10.1001/jamadermatol.2018.2357. [Epub ahead of print]
PMID: 30140900

Occupational Exposures, Injuries, and Health

Off the Courts: Occupational "Tennis Leg"

Domeracki SJ, Landman Z, Blanc PD, Guntur S.

Workplace Health Saf. 2018 Aug 30:2165079918786294. doi: 10.1177/2165079918786294. [Epub ahead of print]
PMID:30160206

Progressive Massive Fibrosis Resurgence Identified in U.S. Coal Miners Filing for Black Lung Benefits, 1970-2016.

Almberg KS, Halldin CN, Blackley DJ, Laney AS, Storey E, Rose CS, Go LHT, Cohen RA.

Ann Am Thorac Soc. 2018 Aug 17. doi: 10.1513/AnnalsATS.201804-261OC. [Epub ahead of print]
PMID: 30114941

Weight Gain and Health Affliction Among Former National Football League Players.

Churchill TW, Krishnan S, Weisskopf M, Yates B, Speizer FE, Kim JH, Nadler LE, Pascual-Leone A, Zafonte R, Baggish AL.

Am J Med. 2018 Aug 10. pii: S0002-9343(18)30771-X. doi: 10.1016/j.amjmed.2018.07.042. [Epub ahead of print]
PMID:30102909

ATS Webinar Journal Club

We hope you had an opportunity to participate in the recent ATS Webinar Journal Club featuring the article, "Once –daily Single-inhaler Triple Versus Dual Therapy in Patients with COPD." The Webinar was co-sponsored by the AII and EOPH assemblies. If you were unable to participate live, there is still an opportunity to watch webinar, available [HERE](#).

Interesting Clinical Cases?

The web committee is currently calling for "Quick Hit" clinical cases, which will be posted on the website and highlighted in this newsletter. It is a good, peer-reviewed writing opportunity for trainees. Submit clinical cases to tara.nordgren@medsch.ucr.edu.

Things Worth Celebrating!

We know that many of you have successes to share with us. Please help us expand this section by emailing us your good news: tara.nordgren@medsch.ucr.edu.