

THE ASSEMBLY ON

Environmental, Occupational, and Population Health

NEWSLETTER



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Dear EOPH Members,

We hope everyone is staying safe and healthy as we continue to navigate and respond to the COVID-19 pandemic.

We have also included some resources to help everyone stay informed as to the current status of the pandemic.

Also included in this August 2020 newsletter are some of our members' recent and "epub ahead of print" articles.

If you have a recent publication or other items that you would like to share in the upcoming newsletter, please send the title and citation link to sophia.kwon@nyulangone.org and TID Section relevant publications to satya.achanta@duke.edu.

Are you interested in getting more involved with ATS and the EOPH assembly? Register [HERE](#) to indicate your interest!

Sincerely,

Your EOPH and TID Web Editorial Committees





Recent Publications

This section highlights some of our assembly members' exciting research that was recently "e-published" or were submitted for inclusion in this newsletter. It is possible that our search may miss your best work, so please send your recent publications to Sophia.Kwon@nyulangone.org.

SARS-CoV-2 / COVID-19

[Associations of Stay-at-Home Order and Face-Masking Recommendation with Trends in Daily New Cases and Deaths of Laboratory-Confirmed COVID-19 in the United States.](#)

Xu J, **Hussain S**, Lu G, Zheng K, Wei S, Bao W, Zhang L. *Explor Res Hypothesis Med.* 2020 Jul 8:1-10. doi: 10.14218/ERHM.2020.00045. eCollection 2020 Jul 8. PMID: 32734759

[Another invisible enemy indoors: COVID-19, human health, the home, and United States indoor air policy.](#)

Nwanaji-Enwerem JC, Allen JG, **Beamer PI**. *J Expo Sci Environ Epidemiol.* 2020 Jul 8:1-3. doi: 10.1038/s41370-020-0247-x. . PMID: 32641763

[SARS-CoV-2 Reverse Genetics Reveals a Variable Infection Gradient in the Respiratory Tract.](#)

Hou YJ, Okuda K, Edwards CE, Martinez DR, Asakura T, Dinnon KH 3rd, Kato T, Lee RE, Yount BL, Mascenik TM, Chen G, Olivier KN, Ghio A, Tse LV, Leist SR, Gralinski LE, Schäfer A, Dang H, Gilmore R, Nakano S, Sun L, Fulcher ML, Livraghi-Butrico A, Nicely NI, Cameron M, Cameron C, Kelvin DJ, de Silva A, Margolis DM, Markmann A, Bartelt L, Zumwalt R, Martinez FJ, Salvatore SP, Borczuk A, Tata PR, Sontake V, Kimple A, **Jaspers I**, O'Neal WK, Randell SH, Boucher RC, Baric RS. *Cell.* 2020 Jul 23;182(2):429-446.e14. doi: 10.1016/j.cell.2020.05.042. Epub 2020 May 27. PMID: 32526206

[Inactivation of SARS-CoV-2 and Diverse RNA and DNA Viruses on 3D Printed Surgical Mask Materials.](#)

Welch JL, Xiang J, Mackin SR, Perlman S, **Thorne P**, O'Shaughnessy P, Strzelecki B, Aubin P, Ortiz-Hernandez M, Stapleton JT. *Infect Control Hosp Epidemiol.* 2020 Aug 12:1-26. doi: 10.1017/ice.2020.417. . PMID: 32783787

[COVID-19: Urgent Reconsideration of Lung Edema as a Preventable Outcome: Inhibition of TRPV4 As a Promising and Feasible Approach.](#)

Kuebler W, **Jordt SE**, Liedtke W. *SSRN.* 2020 Mar 23:3558887. doi: 10.2139/ssrn.3558887. Preprint. PMID: 32714108

[Illness-Related Work Absence in Mid-April Was Highest on Record.](#)

Gaffney AW, Himmelstein DU, Woolhandler S. *JAMA Intern Med.* 2020 Jul 27:e202926. doi: 10.1001/jamainternmed.2020.2926. . PMID: 32730615

[Acute asthma management during SARS-CoV2-pandemic 2020.](#)

Levin M, Morais-Almeida M, Ansotegui IJ, Bernstein J, Chang YS, Chikhladze M, Ebisawa M, Fiocchi A, Heffler E, Martin B, Papadopoulos NG, **Peden D**, Wong GWK. *World Allergy Organ J.* 2020 May 14;13(5):100125. doi: 10.1016/j.waojou.2020.100125. . PMID: 32411315. Review.

[COVID-19, asthma, and biologic therapies: What we need to know.](#)

Morais-Almeida M, Aguiar R, Martin B, Ansotegui IJ, Ebisawa M, Arruda LK, Caminati M, Canonica GW, Carr T, Chupp G, Corren J, Dávila I, Park HS, Hanania NA, Rosenwasser L, Sánchez-Borges M, Virchow JC, Yáñez A,



Bernstein JA, Caraballo L, Chang YS, Chikhladze M, Fiocchi A, González-Diaz SN, Tanno LK, Levin M, Ortega-Martell JA, Passalacqua G, **Peden DB**, Rouadi PW, Sublett JL, Wong GWK, Bleecker ER. *World Allergy Organ J*. 2020 May 16;13(5):100126. doi: 10.1016/j.waojou.2020.100126. PMID: 32426090

Respiratory protection for health care workers: A 2020 COVID-19 perspective.

Petsonk EL, Harber P. *Am J Ind Med*. 2020 Aug;63(8):655-658. doi: 10.1002/ajim.23144. Epub 2020 Jun 4. PMID: 32496602

How to Leverage Collaborations Between the BME Community and Local Hospitals to Address Critical Personal Protective Equipment Shortages During the COVID-19 Pandemic.

George MP, **Maier LA**, Kasperbauer S, Eddy J, **Mayer AS**, Magin CM. *Ann Biomed Eng*. 2020 Jul 24:1-4. doi: 10.1007/s10439-020-02580-3. PMID: 32710248

The Promise and Challenge of Home Health Services During the COVID-19 Pandemic.

Sood A, Walker J. *Am Fam Physician*. 2020 Jul 1;102(1):8-9. PMID: 32603072 No abstract available.

Cycle Threshold to Test Positivity in COVID-19 for Return to Work Clearance in Health Care Workers.

Domeracki S, Clapp RN, Taylor K, Lu CM, Lampiris H, **Blanc PD.** *J Occup Environ Med*. 2020 Aug 13. doi: 10.1097/JOM.0000000000001996. PMID: 32804748

18.2 Million Individuals at Increased Risk of Severe COVID-19 Illness Are Un- or Underinsured.

Gaffney AW, Hawks L, Bor DH, Woolhandler S, Himmelstein DU, McCormick D. *J Gen Intern Med*. 2020 Aug;35(8):2487-2489. doi: 10.1007/s11606-020-05899-8. Epub 2020 Jun 10. PMID: 32524248

"The Most Dangerous Strain"

Almeida M, **Silverman ER.** *J Natl Med Assoc*. 2020 Jun 26:S0027-9684(20)30111-5. doi: 10.1016/j.jnma.2020.05.013. PMID: 32601019

SARS-CoV-2 Reverse Genetics Reveals a Variable Infection Gradient in the Respiratory Tract.

Hou YJ, Okuda K, Edwards CE, Martinez DR, Asakura T, Dinnon KH 3rd, Kato T, Lee RE, Yount BL, Mascenik TM, Chen G, Olivier KN, **Ghio A**, Tse LV, Leist SR, Gralinski LE, Schäfer A, Dang H, Gilmore R, Nakano S, Sun L, Fulcher ML, Livraghi-Butrico A, Nicely NI, Cameron M, Cameron C, Kelvin DJ, de Silva A, Margolis DM, Markmann A, Bartelt L, Zumwalt R, Martinez FJ, Salvatore SP, Borczuk A, Tata PR, Sontake V, Kimple A, Jaspers I, O'Neal WK, Randell SH, Boucher RC, Baric RS. *Cell*. 2020 Jul 23;182(2):429-446.e14. doi: 10.1016/j.cell.2020.05.042. Epub 2020 May 27. PMID: 32526206

COVID-19 and US Health Financing: Perils and Possibilities.

Gaffney A, Himmelstein DU, Woolhandler S. *Int J Health Serv*. 2020 Oct;50(4):396-407. doi: 10.1177/0020731420931431. Epub 2020 Jun 9. PMID: 32515260

The role of initial chest X-ray in triaging patients with suspected COVID-19 during the pandemic.

Kim HW, Capaccione KM, Li G, Luk L, Widemon RS, Rahman O, Beylgeril V, Mitchell R, D'Souza BM, Leb JS, Dumeer S, Bentley-Hibbert S, Liu M, Jambawalikar S, Austin JHM, **Salvatore M.** *Emerg Radiol*. 2020 Jun 22:1-5. doi: 10.1007/s10140-020-01808-y. PMID: 32572707

Shotgun Transcriptome and Isothermal Profiling of SARS-CoV-2 Infection Reveals Unique Host Responses, Viral Diversification, and Drug Interactions.

Butler DJ, Mozsary C, Meydan C, Danko D, Foox J, Rosiene J, Shaiber A, Afshinnekoo E, MacKay M, Sedlazeck FJ, Ivanov NA, Sierra M, Pohle D, Zietz M, Gisladdottir U, Ramlall V, Westover CD, Ryon K, Young B,



Bhattacharya C, Ruggiero P, Langhorst BW, Tanner N, Gawrys J, Meleshko D, Xu D, Steel PAD, Shemesh AJ, Xiang J, Thierry-Mieg J, Thierry-Mieg D, Schwartz RE, Iftner A, Bezdán D, Siple J, Cong L, Craney A, Velu P, Melnick AM, Hajirasouliha I, Horner SM, Iftner T, **Salvatore M**, Loda M, Westblade LF, Cushing M, Levy S, Wu S, Tatonetti N, Imielinski M, Rennert H, Mason CE. *bioRxiv*. 2020 May 1:2020.04.20.048066. doi: 10.1101/2020.04.20.048066. PMID: 32511352

Remdesivir for the Treatment of Covid-19 - Preliminary Report.

Beigel JH, Tomashek KM, Dodd LE, **Mehta AK**, Zingman BS, Kalil AC, Hohmann E, Chu HY, Luetkemeyer A, Kline S, Lopez de Castilla D, Finberg RW, Dierberg K, Tapson V, Hsieh L, Patterson TF, Paredes R, Sweeney DA, Short WR, Touloumi G, Lye DC, Ohmagari N, Oh MD, Ruiz-Palacios GM, Benfield T, Fätkenheuer G, Kortepeter MG, Atmar RL, Creech CB, Lundgren J, Babiker AG, Pett S, Neaton JD, Burgess TH, Bonnett T, Green M, Makowski M, Osinusi A, Nayak S, Lane HC; ACTT-1 Study Group Members. *N Engl J Med*. 2020 May 22:NEJMoa2007764. doi: 10.1056/NEJMoa2007764. PMID: 32445440

Work-related COVID-19 transmission in six Asian countries/areas: A follow-up study.

Lan FY, Wei CF, Hsu YT, **Christiani DC**, Kales SN. *PLoS One*. 2020 May 19;15(5):e0233588. doi: 10.1371/journal.pone.0233588. eCollection 2020. PMID: 32428031

Urgent reconsideration of lung edema as a preventable outcome in COVID-19: inhibition of TRPV4 represents a promising and feasible approach.

Kuebler WM, **Jordt SE**, Liedtke WB. *Am J Physiol Lung Cell Mol Physiol*. 2020 Jun 1;318(6):L1239-L1243. doi: 10.1152/ajplung.00161.2020. Epub 2020 May 13. PMID: 32401673

Face Coverings in a Pandemic.

McGraw MD, Achanta S, **Castner J**, Gold DR, Hines SE, Redlich CA, Sockrider MM. *Am J Respir Crit Care Med*. 2020 Aug 11. doi: 10.1164/rccm.2020C14. .PMID: 32780588 No abstract available.

The Structural and Social Determinants of the Racial/Ethnic Disparities in the U.S. COVID-19 Pandemic: What's Our Role?

Thakur N, Lovinsky-Desir S, Bime C, Wisnivesky JP, **Celedón JC**; Health Equality and Diversity Committee of the American Thoracic Society. *Am J Respir Crit Care Med*. 2020 Jul 17. doi: 10.1164/rccm.202005-1523PP. .PMID: 32677842

Improving Clinical Trial Enrollment - In the Covid-19 Era and Beyond.

North CM, Dougan ML, Sacks CA. *N Engl J Med*. 2020 Jul 15. doi: 10.1056/NEJMp2019989. . PMID: 32668133

COVID-19 and ABO blood groups.

Dzik S, Eliason K, Morris EB, Kaufman RM, **North CM**. *Transfusion*. 2020 Jun 19:10.1111/trf.15946. doi: 10.1111/trf.15946. . PMID: 32562280

Urban Air Pollution May Enhance COVID-19 Case-Fatality and Mortality Rates in the United States.

Liang D, Shi L, Zhao J, Liu P, **Schwartz J**, Gao S, Sarnat J, Liu Y, Ebel S, Scovronick N, Chang HH. *medRxiv*. 2020 May 7:2020.05.04.20090746. doi: 10.1101/2020.05.04.20090746. PMID: 32511493

COVID-19 in lung transplant recipients.

Myers CN, Scott JH, Criner GJ, Cordova FC, Mamary AJ, Marchetti N, **Shenoy KV**, Galli JA, Mulhall PD, Brown JC, Shigemura N, Sehgal S; Temple University COVID-19 Research Group. *Transpl Infect Dis*. 2020 Jun 10:e13364. doi: 10.1111/tid.13364. . PMID: 32521074



[Return to work guidelines for the COVID-19 pandemic.](#)

Rueda-Garrido JC, Vicente-Herrero MT, Del Campo MT, Reinoso-Barbero L, de la Hoz RE, **Delclos GL**, Kales SN, Fernandez-Montero A. *Occup Med (Lond)*. 2020 Jul 17;70(5):300-305. doi: 10.1093/occmed/kqaa099. PMID: 32476022

[SARS-CoV-2 Receptor ACE2 Is an Interferon-Stimulated Gene in Human Airway Epithelial Cells and Is Detected in Specific Cell Subsets across Tissues.](#)

Ziegler CGK, Allon SJ, Nyquist SK, Mbano IM, Miao VN, Tzouanas CN, Cao Y, Yousif AS, Bals J, Hauser BM, Feldman J, Muus C, Wadsworth MH 2nd, Kazer SW, Hughes TK, Doran B, Gatter GJ, Vukovic M, Taliaferro F, Mead BE, Guo Z, Wang JP, Gras D, Plaisant M, Ansari M, Angelidis I, Adler H, Sucre JMS, Taylor CJ, Lin B, Waghray A, Mitsialis V, Dwyer DF, Buchheit KM, Boyce JA, Barrett NA, Laidlaw TM, Carroll SL, Colonna L, Tkachev V, Peterson CW, Yu A, Zheng HB, Gideon HP, Winchell CG, Lin PL, Bingle CD, Snapper SB, Kropfski JA, Theis FJ, Schiller HB, Zaragosi LE, Barbry P, Leslie A, Kiem HP, **Flynn JL**, Fortune SM, Berger B, Finberg RW, Kean LS, Garber M, Schmidt AG, Lingwood D, Shalek AK, Ordovas-Montanes J; HCA Lung Biological Network. Electronic address: lung-network@humancellatlas.org; HCA Lung Biological Network. *Cell*. 2020 May 28;181(5):1016-1035.e19. doi: 10.1016/j.cell.2020.04.035. Epub 2020 Apr 27. PMID: 32413319

[Nebulized Treatments and the Possible Risk of Coronavirus Transmission: Where Is the Evidence?](#)

Tashkin DP, Barjaktarevic IZ. *Chronic Obstr Pulm Dis*. 2020 Jul;7(3):136-138. doi: 10.15326/jcopdf.7.3.2020.0161. PMID: 32413251

Influenza and Other Infectious Diseases

[Baloxavir for the treatment of Influenza in allogeneic hematopoietic stem cell transplant recipients previously treated with oseltamivir.](#)

Salvatore M, Laplante JM, Soave R, Orfali N, Plate M, van Besien K, St George K. *Transpl Infect Dis*. 2020 Aug;22(4):e13336. doi: 10.1111/tid.13336. Epub 2020 Jun 10. PMID: 32449254

[Inhaled Corticosteroids Use and Risk of Invasive Pneumococcal Disease Risk in a Population-based Study.](#)

Torén K, **Blanc PD**, Qvarfordt I, Aspevall O, Schiöler L. *Ann Am Thorac Soc*. 2020 Jul 10. doi: 10.1513/AnnalsATS.202004-352OC. . PMID: 32649216

[Collective interactions augment influenza A virus replication in a host-dependent manner.](#)

Phipps KL, Ganti K, Jacobs NT, Lee CY, Carnaccini S, **White MC**, Manandhar M, Pickett BE, Tan GS, Ferreri LM, Perez DR, Lowen AC. *Nat Microbiol*. 2020 Jul 6. doi: 10.1038/s41564-020-0749-2. . PMID: 32632248

[SIV and Mycobacterium tuberculosis synergy within the granuloma accelerates the reactivation pattern of latent tuberculosis.](#)

Diedrich CR, Rutledge T, Maiello P, Baranowski TM, White AG, Borish HJ, Karell P, Hopkins F, Brown J, Fortune SM, **Flynn JL**, Ambrose Z, Lin PL. *PLoS Pathog*. 2020 Jul 30;16(7):e1008413. doi: 10.1371/journal.ppat.1008413. eCollection 2020 Jul. PMID: 32730321 **Free article.**

[Evaluation of IL-1 Blockade as an Adjunct to Linezolid Therapy for Tuberculosis in Mice and Macaques.](#)

Winchell CG, Mishra BB, Phuah JY, Saqib M, Nelson SJ, Maiello P, Causgrove CM, Ameal CL, Stein B, Borish HJ, White AG, Klein EC, Zimmerman MD, Dartois V, Lin PL, Sasseti CM, **Flynn JL**. *Front Immunol*. 2020 May 12;11:891. doi: 10.3389/fimmu.2020.00891. eCollection 2020. PMID: 32477361 **Free PMC article.**



Research Methods, Training, and Clinical Care

Current Incidence of Adjacent Segment Pathology Following Lumbar Fusion versus Motion-Preserving Procedures: A Systematic Review and Meta-Analysis of Recent Projections.

Donnally CJ 3rd, Patel PD, Canseco JA, Divi SN, Goz V, Sherman MB, **Shenoy K**, Markowitz M, Rihn JA, Vaccaro AR. *Spine J.* 2020 May 20:S1529-9430(20)30291-6. doi: 10.1016/j.spinee.2020.05.100. . PMID: 32445805

Information fraction estimation based on the number of events within the standard treatment regimen.

Dang HM, Alonzo T, Franklin M, Mack WJ, Krailo MD, **Eckel SP**. *Biom J.* 2020 Jul 6. doi: 10.1002/bimj.201900236. .PMID: 32627859

On the cross-population generalizability of gene expression prediction models.

Keys KL, Mak ACY, **White MJ**, Eckalbar WL, Dahl AW, Mefford J, Mikhaylova AV, Contreras MG, Elhawary JR, Eng C, Hu D, Huntsman S, Oh SS, Salazar S, Lenoir MA, Ye JC, Thornton TA, Zaitlen N, Burchard EG, Gignoux CR. *PLoS Genet.* 2020 Aug 14;16(8):e1008927. doi: 10.1371/journal.pgen.1008927. .PMID: 32797036

Biomedical REal-Time Health Evaluation (BREATHE): toward an mHealth informatics platform.

Bui AAT, Hosseini A, Rocchio R, Jacobs N, Ross MK, Okelo S, Lurmann F, **Eckel S**, Dzibur E, Dunton G, **Gilliland F**, Sarrafzadeh M, Habre R. *JAMIA Open.* 2020 May 7;3(2):190-200. doi: 10.1093/jamiaopen/ooaa011. eCollection 2020 Jul. PMID: 32734159

Sequencing and imputation in GWAS: Cost-effective strategies to increase power and genomic coverage across diverse populations.

Quick C, Anugu P, Musani S, Weiss ST, Burchard EG, **White MJ**, Keys KL, Cucca F, Sidore C, Boehnke M, Fuchsberger C. *Genet Epidemiol.* 2020 Sep;44(6):537-549. doi: 10.1002/gepi.22326. Epub 2020 Jun 9. PMID: 32519380

Regarding "Dual Compartment Surgery for Pulmonary Endometriosis".

Roman RA, Asaii A, Rambhatla A, **White M**, Nezhat F. *J Minim Invasive Gynecol.* 2020 Jun 9:S1553-4650(20)30292-2. doi: 10.1016/j.jmig.2020.04.043. .PMID: 32526382 No abstract available.

Development and Prospective Validation of a Transparent Deep Learning Algorithm for Predicting Need for Mechanical Ventilation.

Shashikumar SP, Wardi G, Paul P, Carlile M, Brenner LN, Hibbert KA, **North CM**, Mukerji S, Robbins G, Shao YP, Malhotra A, Westover B, Nemat S. *medRxiv.* 2020 Jun 3:2020.05.30.20118109. doi: 10.1101/2020.05.30.20118109. Preprint. PMID: 32577682

Temporary Transvenous Diaphragmatic Neurostimulation in Prolonged Mechanically Ventilated Patients: A Feasibility Trial (RESCUE 1).

Ataya A, **Silverman EP**, Bagchi A, Sarwal A, Criner GJ, McDonagh DL. *Crit Care Explor.* 2020 Apr 29;2(4):e0106. doi: 10.1097/CCE.000000000000106. eCollection 2020 Apr. PMID: 32426748

Operator Perception of a Single-Use Flexible Bronchoscope: Comparison With Current Standard Bronchoscopes.

Liu L, Wahidi M, Mahmood K, **Giovacchini C**, Shofer S, Cheng G. *Respir Care.* 2020 Jun 2:respcare.07574. doi: 10.4187/respcare.07574. .PMID: 32487752

Is authorship sufficient for today's collaborative research? A call for contributor roles.



A Vasilevsky N, Hosseini M, Teplitzky S, Ilik V, Mohammadi E, Schneider J, Kern B, Colomb J, C Edmunds S, Gutzman K, S Himmelstein D, **White M**, Smith B, O'Keefe L, Haendel M, L Holmes K. *Account Res.* 2020 Jun 30;1-21. doi: 10.1080/08989621.2020.1779591. PMID: 32602379

Impact of New Occupational and Clinical Standards on Spirometry.

Townsend MC, Graham BL. *J Occup Environ Med.* 2020 May;62(5):e231-e232. doi: 10.1097/JOM.0000000000001871. PMID: 32398506 No abstract available.

Impact of DNA Extraction Method on Variation in Human and Built Environment Microbial Community and Functional Profiles Assessed by Shotgun Metagenomics Sequencing.

Sui HY, Weil AA, Nuwagira E, Qadri F, Ryan ET, Mezzari MP, Phipatanakul W, **Lai PS**. *Front Microbiol.* 2020 May 25;11:953. doi: 10.3389/fmicb.2020.00953. eCollection 2020. PMID: 32528434 **Free PMC article.**

Statistical considerations for the analysis of massively parallel reporter assays data.

Qiao D, Zigler CM, Cho MH, **Silverman EK**, Zhou X, Castaldi PJ, Laird NH. *Genet Epidemiol.* 2020 Jul 18. doi: 10.1002/gepi.22337. PMID: 32681690

Three-dimensional printing in radiation oncology: A systematic review of the literature.

Rooney MK, **Rosenberg DM**, Braunstein S, Cunha A, Damato AL, Ehler E, Pawlicki T, Robar J, Tatebe K, Golden DW. *J Appl Clin Med Phys.* 2020 May 27. doi: 10.1002/acm2.12907. PMID: 32459059

Transplant Medicine

Esophageal Evaluation for Patients Undergoing Lung Transplant Evaluation: What Should We Do for Evaluation and Management.

Malik Z, **Shenoy K**. *Gastroenterol Clin North Am.* 2020 Sep;49(3):451-466. doi: 10.1016/j.gtc.2020.04.004. Epub 2020 Jun 16. PMID: 32718564 Review.

Prevalence and Impact of Restrictive Lung Disease in Liver Transplant Candidates.

DuBrock HM, Krowka MJ, Krok K, Forde K, Mottram C, **Scanlon P**, Al-Naamani N, Patel M, McCormick A, Fallon MB, Kawut SM. *Liver Transpl.* 2020 Aug;26(8):989-999. doi: 10.1002/lt.25794. Epub 2020 Jul 9. PMID: 32394590

Primary graft dysfunction attenuates improvements in health-related quality of life after lung transplantation, but not disability or depression.

Kolaitis NA, Gao Y, Soong A, Greenland JR, Hays SR, Golden J, Leard LE, Shah RJ, Kleinhenz ME, Katz PP, Venado A, Kukreja J, **Blanc PD**, Singer JP. *Am J Transplant.* 2020 Aug 13. doi: 10.1111/ajt.16257. PMID: 32794295

Neonatal and Pediatric Lung Disease

Risk factors for atopic and nonatopic asthma in Puerto Rican children.

Landeo-Gutierrez J, Han YY, Forno E, **Rosser FJ**, Acosta-Pérez E, Canino G, **Celedón JC**. *Pediatr Pulmonol.* 2020 Jun 27. doi: 10.1002/ppul.24930. PMID: 32592538

Whole Genome Sequencing Identifies Novel Functional Loci Associated with Lung Function in Puerto Rican Youth.

Lee EY, Mak AC, Hu D, Sajuthi S, **White MJ**, Keys KL, Eckalbar W, Bonser L, Huntsman S, Urbanek C, Eng C, Jain D, Abecasis G, Kang HM, Germer S, Zody MC, Nickerson DA, Erle D, Ziv E, Rodriguez-Santana J, Seibold MA,



Burchard EG. *Am J Respir Crit Care Med.* 2020 May 27. doi: 10.1164/rccm.202002-0351OC.
.PMID: 32459537

The home air in agriculture pediatric intervention (HAPI) trial: Rationale and methods.

Masterson EE, Younglove LB, Perez A, Torres E, Krenz JE, Tchong French MI, Riederer AM, Sampson PD, Metwali N, Min E, Jansen KL, Aisenberg G, Babadi RS, Farquhar SA, **Thorne PS**, Karr CJ. *Contemp Clin Trials.* 2020 Jul 25;96:106085. doi: 10.1016/j.cct.2020.106085. PMID: 32721578

A prospective cohort study of in utero and early childhood arsenic exposure and infectious disease in 4- to 5-year-old Bangladeshi children.

Ahmed SM, Branscum A, Welch BM, Megowan M, Bethel JW, Odden MC, Joya SA, Ibn Hasan MOS, Lin PI, Mostofa G, Quamruzzaman Q, Rahman M, **Christiani DC**, Kile ML. *Environ Epidemiol.* 2020 Apr 9;4(2):e086. doi: 10.1097/EE9.000000000000086. eCollection 2020 Apr. PMID: 32656486

A proposal for the addressing the needs of the pediatric pulmonary work force.

Gaston B, Laguna TA, Noah TL, Hagood J, Voynow J, Ferkol T, Hershenson M, Boyne K, Delecaris A, Ross K, Gozal D, **Celedón JC**, Abman SH, Moore P, Davis S, Cornfield DN, Murphy T. *Pediatr Pulmonol.* 2020 Aug;55(8):1859-1867. doi: 10.1002/ppul.24856. Epub 2020 Jun 12. PMID: 32531116

Estimated Prevalence of Asthma in US Children With Developmental Disabilities.

Xie L, Gelfand A, **Delclos GL**, Atem FD, Kohl HW 3rd, Messiah SE. *JAMA Netw Open.* 2020 Jun 1;3(6):e207728. doi: 10.1001/jamanetworkopen.2020.7728. PMID: 32543699

Differential Effect of School-Based Pollution Exposure in Children With Asthma Born Prematurely.

Gaffin JM, Hauptman M, Petty CR, Haktanir-Abul M, Gunnlaugsson S, **Lai PS**, Baxi SN, Permaul P, Sheehan WJ, Wolfson JM, Coull BA, **Gold DR**, Koutrakis P, Phipatanakul W. *Chest.* 2020 May 22:S0012-3692(20)31500-2. doi: 10.1016/j.chest.2020.05.533. .PMID: 32450239 No abstract available.

A genome-wide study of DNA methylation in white blood cells and asthma in Latino children and youth.

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Potential Faculty Positions

Division of Respiratory Medicine at the University of British Columbia (Vancouver, Canada). The career opportunities intersect in a new program on airways disease focused on translational research and implementation science. Find all the information here: <https://www.vchri.ca/legacyforairwayhealth>

Please email us with any additional positions you would like included

Updates from Terrorism and Inhalation Disasters (TID) Section



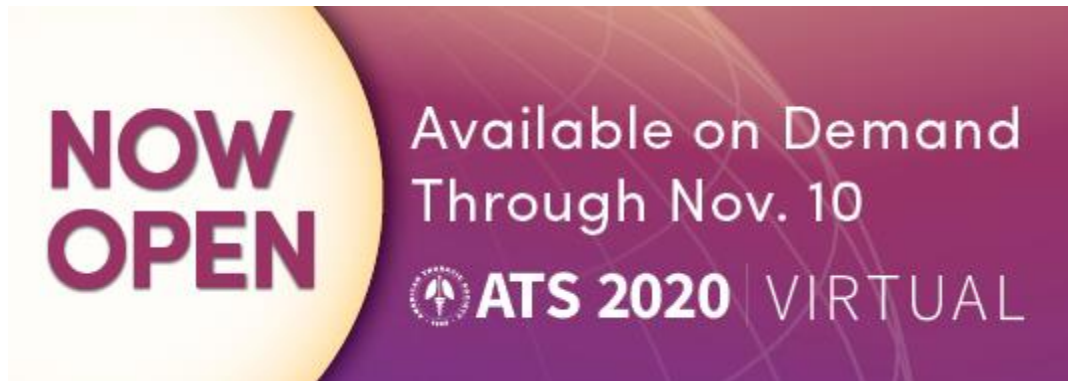
Sven-Eric Jordt, PhD, Associate Professor of Anesthesiology at Duke University School of Medicine shared his expert opinion on toxic effects of tear gas agents.

<https://apnews.com/c814cc7b873ccaf60b95b10e96ecfc12>





https://conference.thoracic.org/?_ga=2.138343987.2090952534.1598469020-1343231238.1517242217



Check out session information: <https://conference.thoracic.org/program/session-information/index.php>

The relevant ATS 2020 Virtual sessions for TID membership –

Session: **A90 - EMERGING DANGERS FROM E-CIGARETTES: LET'S HAVE A VAPE DEBATE**

Chairs: Ilona Jaspers, Ph.D and Sven Eric Jordt, Ph.D

Date & Time: **Wednesday, 08/05/2020, 08:30 AM - 10:30 AM**

Room: **ATS 2020 Virtual**

Session: **C11: EVOLVING KNOWLEDGE OF THE EFFECT OF CANNABIS AND CANNABINOIDS ON THE LUNG**

Chairs: Kristina Bailey, MD and Laura E Crotty Alexander

Date & Time: pending

Room: **ATS 2020 Virtual**

Session: **D85: ENVIRONMENTAL EXPOSURES AND THE AIRWAY MICROBIOME**

Chairs: Christopher Carlsten, MD and Ilona Jaspers Ph.D

Date & Time: pending

Room: **ATS 2020 Virtual**

ATS 2021 is calling for input: <https://conference.thoracic.org/program/early-career-professionals/ccd-call-for-input.php>

Recent publications from TID members and relevant to TID section:

Featured publication: Face Coverings in a Pandemic. Matthew D. McGraw , Satya Achanta , Jessica Castner , Diane R. Gold , Stella E Hines , Carrie A. Redlich , and Marianna M. Sockrider. Am J Respir Crit Care Med. 2020 Aug 11. doi: 10.1164/rccm.2020C14. . <https://doi.org/10.1164/rccm.2020C14> PMID: 32780588

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PUBLIC HEALTH | INFORMATION SERIES

Face Coverings in a Pandemic

A face covering is a simple barrier placed over the face and nose and worn by the public (everyone in a community) during an epidemic or pandemic such as Coronavirus-19 (COVID-19).

Three crucial measures combined can help control the spread of COVID-19:

1. Wear a face covering
2. Stay at least 6 feet [2 meters] from people who do not live in your household (social distancing)
3. Wash your hands regularly

Why do I need a face covering?

- COVID-19 is spread primarily through respiratory droplets. Respiratory droplets are released into the air when an infected person sneezes, coughs, sings, or even talks.
- Close contact with a person infected with COVID-19 or touching a contaminated surface are the most common ways that you can become infected from a respiratory droplet.
- People infected with COVID-19 may not show any signs or symptoms of infection but can still make others sick.

Who needs to wear a face covering?

- Everyone over the age of 2 years of age.
- Children less than 2 years of age, developmentally delayed individuals, or people with severe lung disease may not tolerate a tight fitting face covering. Additionally, anyone who has trouble removing a face covering without assistance should not wear a face covering. In these circumstances, consider a face shield and greater social distancing.

When do I need to wear my face covering?

- Anytime you are out of your house, at work, or in the community

How to wear your face covering¹



Instructions for proper placement

- Wash your hands with soap and water or an alcohol-based (>60% ethanol) hand-sanitizer for at least 20 seconds prior to putting on, touching, adjusting or removing your face covering
- Place the bands around your ears or secure on the back of your head
- The top of the covering should fit securely over your nose, covering your entire nose, mouth and chin
- Take care not to touch the center of the mask

How can I help my child wear a face covering?

- Remember first - always wear your face covering as you are your child's biggest role model.
- Put the mask on a stuffed toy to show the child how it works.
- Show your child pictures of other children wearing masks.
- Talk about being a super hero with a mask to protect others.
- Practice often at home so your child gets used to wearing the mask and not touching or pulling on it. Give your child positive feedback for good behavior.

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PULMONARY • CRITICAL CARE

ATS/RCM Articles in Press. Published August 11, 2020 as 10.1164/rccm.2020C14

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Am J Respir Crit Care Med 2020 [online ahead of print]
ATS Patient Education Series © 2020 American Thoracic Society

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PATIENT EDUCATION | INFORMATION SERIES

What is the recommended material for face covering?

- Your face covering should contain at least two layers of fabric, most commonly cotton.
- Additional layers or different types of fabric may provide additional barrier protection but may also cause greater discomfort or shortness of breath.

How is a face covering different from a respirator?

- A respirator is a type of personal protective equipment (PPE) used by people in high-risk jobs such as healthcare workers where the risk of exposure is higher than the public.
- A respirator must be properly tested for fit and seal. For this reason and because they are a scarce resource during the COVID-19 pandemic, they are generally reserved for healthcare workers.
- A face covering is different from a respirator as a face covering is used primarily to protect others, however, it may have some benefit in protecting you as well.

When should I consider PPE?

- Remember, the likelihood of being infected with COVID-19 increases when a person is in close contact with others and/or is in a poorly ventilated (reduced air exchange) area for an extended period. The best way to reduce your risk of COVID-19 is to avoid close contact with others. If this is not possible and you are considering use of a respirator, we recommend discussing your risk of COVID-19 with your primary provider.
- If you are high risk or are required to be in a high risk circumstance:
 - ▶ consider using a face shield together with a face covering of PPE
 - ▶ before starting to wear PPE, discuss with your healthcare provider as proper fit testing is required.
- We discourage the use of masks with an exhalation valve, as the virus may be able to leave or enter the mask and not be as effective at reducing the spread of COVID-19 to others.

Face coverings should:

- Fit snugly but comfortably against the side of the face
- Be secured with ties or ear loop bands
- Include at least 2 layers of fabric
- Allow for breathing without restriction
- Be hand washed or laundered and machine dried without damage or change in its shape

In addition to wearing a face covering, we strongly recommend:

- Cleaning your hands with soap and water or an alcohol-based (>60% ethanol) hand-sanitizer multiple times per day
- Avoid touching your face or eyes
- Limiting non-essential travel
- Regular washing of your face covering, preferably daily
- Changing your face covering when wet or damp

Not everyone has access to face coverings, hand sanitizer, clean water or the opportunity to perform social distancing from others. Your public health department or local hospital may be able to supply face coverings for your community.

Authors: Matthew D. McGraw, MD, Satya Achanta DVM, PhD, Jessica Castner PhD, RN-BC, Diane R. Gold MD, MPH, Stella E. Hines MD, MSPH, Carrie A. Redlich MD, MPH, Marianna M. Sockrider MD DrPH
Reviewers: Shazia Jamil, MD, Fady Jamous, MD.

Additional Information

Centers for Disease Control and Prevention

- <https://www.cdc.gov/coronavirus/2019-ncov/hcp/using-ppe.html>

World Health Organization

- <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public/when-and-how-to-use-masks>

JAMA: The Journal of the American Medical Association

- <https://jamanetwork.com/journals/jama/fullarticle/2765525>
- <https://www.cdc.gov/media/releases/2020/p0714-americans-to-wear-masks.html>

AAP website Healthy Children.org

- <https://www.healthychildren.org/English/health-issues/conditions/COVID-19/Pages/Cloth-Face-Coverings-for-Children-During-COVID-19.aspx>

American Thoracic Society

- www.thoracic.org/patients/
- COVID-19: How Do We Stay Safe?
- <https://www.thoracic.org/patients/patient-resources/resources/covid-19-how-do-we-stay-safe.pdf>

N95decon.org

- <https://www.n95decon.org/publications#masks-for-public-use>

¹ <https://www.utsouthwestern.edu/covid-19/work-on-campus/masking.html>

This information is a public service of the American Thoracic Society. The content is for educational purposes only. It should not be used as a substitute for the medical advice of one's healthcare provider.



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Section on
**TERRORISM &
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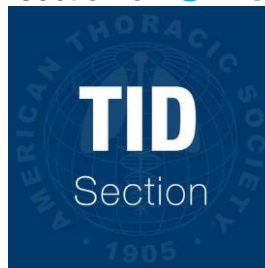
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PMID: 32524776 **Free PMC article.**



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TID section is soliciting ideas for putting together podcasts, webinars, and journal clubs. Please contact Satya Achanta, DVM, PhD, DABT (satya.achanta@duke.edu), Web Director of TID section, if you are interested to lead any of these activities. Also, please email your publications, news articles, or presentations pertinent to TID section to include in the future EOPH newsletters.



COVID-19 RESOURCES

ATS Resources

The ATS Clinical Problems (CP) Assembly has a closed, internal Facebook page hosted by MeiLan Han that is being consistently updated with COVID-19 updates/resources for rapid dissemination among members. All ATS members may have access to this page—you will need to enter your ATS member number to join. The link to the Facebook page is [HERE](#). A major goal of this resource is to also add to knowledge by posting experiences with clinical care associated with COVID-19, as well as more general news regarding coronavirus.

Disclaimer: Staff will be monitoring postings but will not be able to judge content, and thus, these are simply platforms for exchange, with everyone understanding that nothing posted is official, ATS-vetted information. Also, please keep in mind HIPPA regulations when sharing information.

Other Resources

The New York Times has made their very extensive, frequently updated, coronavirus coverage freely available without a subscription. You can access this information by navigating from the [New York Times homepage](#), or click the link [HERE](#) to go directly to the resources.

The Center for Systems Science and Engineering at Johns Hopkins University is providing a map of the global spread of COVID-19 that updates regularly. You can access the site [HERE](#).

The ATS COVID-19 Resource Center provides free information to help healthcare providers, patients and their families manage a host of issues related to the COVID-19 pandemic. Content will be updated regularly.

If you have suggestions for resources or ideas for how ATS can best support the pulmonary, critical care, and sleep medicine community during this challenging time, please contact: covid19info@thoracic.org.

Which can be accessed [HERE](#)

Recently Posted Events Include

- **Industry Innovations: COPD Management in the time of COVID-19 and New Real World Data on Inhaler Choice**

Has COVID-19 impacted the way you treat your COPD patients? Join us for a webinar discussing “COPD Management in the time of COVID-19 & New Real World Data on Inhaler Choice” presented by Michael Hess, RT, and Brad Drummond, MD.

When: 12 p.m. ET, Sept. 1, 2020 [Register now!](#)

- **Critical Care Training Forum: Cardiac Issues with COVID-19: Acute and Long-term Implications**

When: 8 p.m. ET, Sept. 1, 2020 [Register now!](#)



Advice for Pulmonary Function Testing

Very important PFT advice that you might have missed was issued late last month by members of the ATS Proficiency Standards for Pulmonary Function Testing Committee, called "Advice Regarding COVID 19 For Pulmonary Function Laboratories." Its link is here: [HERE](#) - you have to scroll to the bottom of the page.

<https://www.thoracic.org/professionals/clinical-resources/disease-related-resources/pulmonary-function-laboratories.php>

It states that:

“Concern has been raised that pulmonary function testing could represent a potential avenue for COVID 19 transmission due to the congregation of patients with lung disease and because of the potential for coughing and droplet formation surrounding pulmonary function testing procedures.”

The Committee recommends “that pulmonary function testing be limited to tests that are only essential for immediate treatment decisions, that the type of pulmonary function testing be limited to the most essential tests when possible, and that measures to protect both the staff and individuals being tested should be put in place.”

Based on ACOEM's and CAOHC's recommendations about postponing non-essential routine spirometry and hearing tests, OSHA issued an enforcement guidance on postponing various testing and training activities during the pandemic. News release here: <https://www.osha.gov/news/newsreleases/national/04162020-0>

Program Review Subcommittee (PRS) Chat: Provides an overview and advice on how to get your ATS proposals accepted

<https://static.thoracic.org/video/assemblies/prs/prs-eoph.mp4>

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