UAB HEERSINK SCHOOL OF MEDICINE
The University of Alabama at Birmingham

Pediatric Pulmonology

2021 Publications

Title

Am J Health Promot. 2021 Oct 30;8901171211045038. *Exploring COVID-19 Vaccine Hesitancy Among Stakeholders in African American and Latinx Communities in the Deep South Through the Lens of the Health Belief Model.* Lori B Bateman, Allyson G Hall, William A Anderson, Andrea L Cherrington, Anna Helova, Suzanne Judd , Robert Kimberly, **Gabriela R Oates**, Tiffany Osborne, Corilyn Ott, Melissa Ryan, Christian Strong, Mona N Fouad.

Am J Physiol Lung Cell Mol Physiol. 2021. *CFTR Function and Clinical Response to Modulators Parallel Nasal Epithelial Organoid Swelling*. Anderson, JD, Liu, Z, Kersh, L, **Guimbellot, JS.**

Am J Respir Crit Care Med. 2021 Mar 18. *A Phase 3 Open-Label Study of ELX/TEZ/IVA in Children 6 Through 11 Years of Age With CF and at Least One F508del Allele*. Edith T Zemanick, Jennifer L Taylor-Cousar, Jane Davies, Ronald L Gibson, Marcus A Mall, Edward F McKone, Paul McNally, Bonnie W Ramsey, Jonathan H Rayment, **Steven M Rowe**, Elizabeth Tullis, Neil Ahluwalia, Chenghao Chu, Thang Ho, Samuel M Moskowitz, Sabrina Noel, Simon Tian, David Waltz, Tanya G Weinstock, Fengjuan Xuan, Claire E Wainwright, Susanna A McColley, VX18-445-106 Study Group.

Am J Respir Crit Care Med. 2021 May 10. *Racial Segregation and Respiratory Outcomes among Urban Black Residents with and at Risk of COPD*. Han Woo, Emily P Brigham, Kassandra Allbright, Chinedu Ejike, Panagis Galiatsatos, Miranda R Jones, **Gabriela R Oates**, Jerry A Krishnan, Christopher B Cooper, Richard E Kanner, Russell P Bowler, Eric A Hoffman, Alejandro P Comellas, Gerard Criner, R Graham Barr, Fernando J Martinez, MeiLan K Han, Victor E Ortega, Trisha M Parekh, Stephanie Christenson, Daniel Belz, Sarath Raju, Amanda Gassett, Laura M Paulin, Nirupama Putcha, Joel D Kaufman, Nadia N Hansel.

Am J Respir Crit Care Med. 2021 Nov 16; *Clinical Effectiveness of Elexacaftor/Tezacftor/Ivacaftor in People with Cystic Fibrosis.* David P Nichols, Alex C Paynter, Sonya L Heltshe, Scott H Donaldson, Carla A Frederick, Steven D Freedman, Daniel Gelfond, Lucas R Hoffman, Andrea Kelly, Michael R Narkewicz, Jessica E Pittman, Felix Ratjen, Margaret Rosenfeld, Scott D Sagel, Sarah Jane Schwarzenberg, Pradeep K Singh, George M Solomon, Michael S Stalvey, John P Clancy, Shannon Kirby, Jill M Van Dalfsen, Margaret H Kloster, **Steven M Rowe**, PROMISE Study Group.

Ann Am Thorac Soc. 2021 Feb;18(2):215-217. *Social Inequities and Cystic Fibrosis Outcomes: We Can Do Better*. **Gabriela R Oates**, Michael S Schechter.

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Ann Am Thorac Soc. 2021 Jan;18(1):75-83. *Clinical Effectiveness of Lumacaftor/Ivacaftor in Patients with Cystic Fibrosis Homozygous for F508del-CFTR. A Clinical Trial.* Scott D Sagel, Umer Khan, Sonya L Heltshe, John P Clancy, Drucy Borowitz, Daniel Gelfond, Scott H Donaldson, Antoinette Moran, Felix Ratjen, Jill M VanDalfsen, **Steven M Rowe**.

Ann Plast Surg. 2021 Apr 5. *Mandibular Distraction Osteogenesis as a Primary Intervention in Infants With Pierre Robin Sequence*. Edgar Soto, Shivani Ananthasekar, Srikanth Kurapati, Nathaniel H Robin, Cassi Smola, **Mary Halsey Maddox**, Carter J Boyd, René P Myers.

Annals ATS, 2021:18(2), 215-217. *Social Inequities and Cystic Fibrosis Outcomes: We Can Do Better*. **Oates GR,** Schechter MS.

Int Forum Allergy Rhinol. 2021 Oct 26; 10.1002/alr.22907. *Ivacaftor restores delayed mucociliary transport caused by Pseudomonas aeruginosa-induced acquired cystic fibrosis transmembrane conductance regulator dysfunction in rabbit nasal epithelia.* Do-Yeon Cho, Shaoyan Zhang, Daniel F Skinner, Dong Jin Lim, Catherine Banks, Jessica W Grayson, Guillermo J Tearney, **Steven M Rowe**, Bradford A Woodworth.

Int J Pediatr Otorhinolaryngol. 2021 Aug 6;150:110874. *Optimal timing and technique for endoscopic management of dysphagia in pediatric aerodigestive patients*. R E Wineski, E Panico, A Karas, P Rosen, B Van Diver, T G Norwood, J W Grayson, G Beltran-Ale, R Dimmitt, R Kassel, A Rogers, M Leonard, A Chapman, L Boehm, B Wiatrak, **W T Harris**, N Smith.

J Alzheimers Dis. 2021 Aug 24; 10.3233/jad-210240. *Dementia Care in Diverse Older Adults in the U.S. Deep South and the Rest of the United States.* Maria Pisu, Roy C Martin, Liang Shan, Giovanna Pilonieta, Richard E Kennedy, **Gabriela Oates**, Young-Il Kim, David S Geldmacher.

J Clin Sleep Med. 2021 Feb 1;17(2):219-226. *Nocturnal hypoxemia measured by polysomnogram is associated with acute chest syndrome in pediatric sickle cell disease.* **Nourani AR,** Fazlur Rahman AKM, Pernell B, Maddox MH, Hilliard L, Lebensburger J, **Alishlash AS**.

J Community Health. 2021 May 9;1-9. *The Association Between Neighborhood Social Vulnerability and COVID-19 Testing, Positivity, and Incidence in Alabama and Louisiana*. **Gabriela R Oates**, Lucia D Juarez, Ronald Horswell, San Chu, Lucio Miele, Mona N Fouad, William A Curry, Daniel Fort, William B Hillegass, Denise M Danos.

J Cyst Fibros. 2021. *Clinical implication of tacrolimus-elexacaftor/tezacaftor/ivacaftor drug-drug interaction in a pediatric liver transplant recipient.* Smith M, Benner KW, Gutierrez H, Nogueira J, **Guimbellot JS**.

J Cyst Fibros. 2021 Aug 19;S1569-1993(21)01329-1. *Riociguat for the treatment of Phe508del homozygous adults with cystic fibrosis*. Nico Derichs, Jennifer L Taylor-Cousar, Jane C Davies, Isabelle Fajac, Elizabeth Tullis, Dilip Nazareth, Damian G Downey,

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Daniel Rosenbluth, Anne Malfroot, Clare Saunders, Renee Jensen, George M Solomon, Francois Vermeulen, Andreas Kaiser, Stefan Willmann, Soundos Saleh, Karoline Droebner, Peter Sandner, Christine E Bear, Anja Hoffmann, Felix Ratjen, **Steven M Rowe**, Rio-CF Study Group.

J Cyst Fibros. 2021 Dec;20 Suppl 3:49-54. *Telehealth use in cystic fibrosis during COVID-19: Association with race, ethnicity, and socioeconomic factors.* Dana Albon, Aricca D Van Citters, Thida Ong, Olivia Dieni, Christopher Dowd, Anne Willis, Kathryn A Sabadosa, Peter Scalia, Kimberly Reno, **Gabriela R Oates**, Michael S Schechter.

J Cyst Fibros. 2021 Feb 19;S1569-1993(21)00038-2. *PROMISE: Working with the CF community to understand emerging clinical and research needs for those treated with highly effective CFTR modulator therapy*. Dave P Nichols, Scott H Donaldson, Carla A Frederick, Steven D Freedman, Daniel Gelfond, Lucas R Hoffman, Andrea Kelly, Michael R Narkewicz, Jessica E Pittman, Felix Ratjen, Scott D Sagel, Margaret Rosenfeld, Sarah Jane Schwarzenberg, Pradeep K Singh, George M Solomon, Michael S Stalvey, Shannon Kirby, Jill M VanDalfsen, John P Clancy, **Steven M Rowe**.

J Cyst Fibros. 2021 Feb 8;S1569-1993(21)00034-5. *Measuring the impact of CFTR modulation on sweat chloride in cystic fibrosis: Rationale and design of the CHEC-SC study*. Edith T Zemanick, Michael W Konstan, Donald R VanDevanter, **Steven M Rowe**, J P Clancy, Katherine Odem-Davis, Michelle Skalland, Nicole Mayer-Hamblett.

J Cyst Fibros. 2021 Jul 16;S1569-1993(21)01301-1. *Cessation of smoke exposure improves pediatric CF outcomes: Longitudinal analysis of CF Foundation Patient Registry data.* **Gabriela R Oates**, Elizabeth Baker, Joseph M Collaco, **Steven M Rowe**, Sarah B Rutland, **Christopher M Fowler**, **William T Harris**.

J Cyst Fibros. 2021 Jul 2;S1569-1993(21)01287-X. *Antisense oligonucleotide-based drug development for Cystic Fibrosis patients carrying the 3849+10 kb C-to-T splicing mutation.* Yifat S Oren, Michal Irony-Tur Sinai, Anita Golec, Ofra Barchad-Avitzur, Venkateshwar Mutyam, Yao Li, Jeong Hong, Efrat Ozeri-Galai, Aurélie Hatton, Chen Leibson, Liran Carmel, Joel Reiter, Eric J Sorscher, Steve D Wilton, Eitan Kerem, **Steven M Rowe**, Isabelle Sermet-Gaudelus, Batsheva Kerem.

J Cyst Fibros. 2021 Jun 12;S1569-1993(21)00159-4. *Ivacaftor-elexacaftor-tezacaftor and tacrolimus combination in cystic fibrosis*. Megan Smith, Kevin J Ryan, Hector Gutierrez, Luz Helena Gutierrez Sanchez, Janaina Nogueira Anderson, Edward P Acosta, Kim W Benner, **Jennifer S Guimbellot**.

J Cyst Fibros. 2021 Jun 14:S1569-1993(21)00126-0. *Cardiovascular complications in cystic fibrosis: A review of the literature*. **Poore TS**, Taylor-Cousar JL, Zemanick ET.

J Cyst Fibros. 2021 May 31;S1569-1993(21)00131-4. *Effect of lumacaftor-ivacaftor on mucociliary clearance and clinical outcomes in cystic fibrosis: Results from the PROSPECT MCC sub-study.* Scott H Donaldson, Beth L Laube, Peter Mogayzel, Timothy E Corcoran,

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Joseph M Pilewski, Agathe Ceppe , Jihong Wu, Pradeep G Bhambhvani, Felix Ratjen, Scott D Sagel, J P Clancy, **Steven M Rowe,** William D Bennett.

J Cyst Fibros. 2021 Sep 16;S1569-1993(21)01348-5. *Empire-CF study: A phase 2 clinical trial of leukotriene A4 hydrolase inhibitor acebilustat in adult subjects with cystic fibrosis.* J Stuart Elborn, Michael W Konstan, Jennifer L Taylor-Cousar, Isabelle Fajac, Alexander Horsley, Sivagurunathan Sutharsan , Shawn D Aaron, Cori L Daines, Ahmet Uluer, Damian G Downey, Vincenzina V Lucidi, Sanjeev Ahuja, Eric Springman, John Mershon, Ralph Grosswald, **Steven M Rowe**, EMPIRE-CF study group.

J Neurosurg Pediatr. 2021 Nov 26;1-7. *Care for Chiari malformation type I: the role of socioeconomic disadvantage and race.* Syed Hassan A Akbari, **Gabriela R Oates**, Irina Gonzalez-Sigler, Anastasia A Arynchyna, Justin McCroskey, Elizabeth N Alford, Tofey J Leon, Sarah Rutland, James M Johnston, Jeffrey P Blount, Curtis J Rozzelle, Brandon G Rocque.

J Transport & Health. 2021, April 4. *Barriers and facilitators to bikeshare programs: A qualitative study in an urban environment.* Lori Brand Bateman, Mona N. Fouad, Andrew Sullivan, Laura Heider, **Gabriela R. Oates**.

J Urol. 2021 Apr 27;101097JU0000000000001846. *Disparities in Kidney Stone Disease: A Scoping Review*. Joseph J Crivelli, Naim M Maalouf, Henry J Paiste, Kyle D Wood, Amy E Hughes, **Gabriela R Oates**, Dean G Assimos.

J Vis Exp. 2021 Dec 17;(178). *Culture and Imaging of Human Nasal Epithelial Organoids*. Zhongyu Liu, Justin D Anderson, Jennifer Natt, **Jennifer S Guimbellot**.

JMIR Form Res. 2021 Jan 26;5(1):e19413. *A Mobile Health Platform for Self-management of Pediatric Cystic Fibrosis: Qualitative Study on Adaptation to Stakeholder Needs and Integration in Clinical Settings*. Rutland SB, Bergquist RP, Hager A, Geurs R, Mims C, Gutierrez HH, **Oates GR.**

Journal of Visual Experimentation. October 2021. *Culture and Imaging of Human Nasal Epithelial Organoids.* Liu Z, Anderson JD, Natt J, **Guimbellot JS.**

Lancet Respir Med. 2021 May 6;S2213-2600(21)00176-4. *Combination CFTR modulator therapy in children and adults with cystic fibrosis*. **Jennifer S Guimbellot**, Jennifer L Taylor-Cousar.

N Engl J Med. 2021 Aug 26;385(9):815-825. *Triple Therapy for Cystic Fibrosis Phe508del-Gating and -Residual Function Genotypes.* Peter J Barry, Marcus A Mall, Antonio Álvarez, Carla Colombo, Karin M de Winter-de Groot, Isabelle Fajac, Kimberly A McBennett, Edward F McKone, Bonnie W Ramsey, Sivagurunathan Sutharsan, Jennifer L Taylor-Cousar, Elizabeth Tullis, Neil Ahluwalia, Lucy S Jun, Samuel M Moskowitz, Valentin Prieto-Centurion, Simon Tian, David Waltz , Fengjuan Xuan, Yaohua Zhang, **Steven M Rowe**, Deepika Polineni, VX18-445-104 Study Group.

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Nat Commun. 2021 Jul 16;12(1):4358. *A small molecule that induces translational readthrough of CFTR nonsense mutations by eRF1 depletion*. Jyoti Sharma, Ming Du, Eric Wong, Venkateshwar Mutyam, Yao Li, Jianguo Chen, Jamie Wangen, Kari Thrasher, Lianwu Fu, Ning Peng, Liping Tang, Kaimao Liu, Bini Mathew, Robert J Bostwick, Corinne E Augelli-Szafran, Hermann Bihler, Feng Liang, Jerome Mahiou, Josef Saltz, Andras Rab, Jeong Hong, Eric J Sorscher, Eric M Mendenhall, Candice J Coppola, Kim M Keeling, Rachel Green, Martin Mense, Mark J Suto, **Steven M Rowe**, David M Bedwell.

Pathogens. 2021 May 18;10(5):618. *Fungal Infection and Inflammation in Cystic Fibrosis*. **Poore TS**, Hong G, Zemanick ET.

Pediatr Blood Cancer. 2021 Apr;68(4):e28877. *Acute chest syndrome in pediatric sickle cell disease: Associations with racial composition and neighborhood deprivation.* **Alishlash AS,** Rutland SB, Friedman AJ, Hampton JI, **Nourani A,** Lebensburger J, **Oates GR.**

Pediatr Pulmonol. 2021 Feb;56(2):571-577. *Vascular and pulmonary comorbidities in children with congenital EA/TEF*. **Poore TS**, Weinman JP, Handley E, Wine T, Helland S, Corbett B, Antoniolli N, Somme S, Friedlander J, Prager JD, DeBoer EM.

Pediatr Pulmonol. 2021 May;56(5):883-890. *The Association of Area Deprivation and State Child Health with Respiratory Outcomes of Pediatric Patients with Cystic Fibrosis in the United States*. **Oates GR,** Rutland S, Juarez L, Friedman A, Schechter MS.

Pediatr Pulmonol. 2021 Oct 23;10.1002/ppul.25741. *Clinical characteristics of people with cystic fibrosis and frequent fungal infection.* **Thomas Spencer Poore**, Maxene Meier, Elinor Towler, Stacey L Martiniano, John T Brinton, Emily M DeBoer, Scott D Sagel, Brandie D Wagner, Edith T Zemanick.

Pediatr Pulmonol. 2022 Jan;57(1):224-230. *Application of lung volume reduction surgery for a child with filamin A (FLNA) mutations*. Lindsay C Burrage, Jeffrey S Heinle, Robert H Cerfolio, Robert P Guillerman, Kalyani R Patel, Nahir C Santiago, **Wynton C Hoover**, George B Mallory Jr.

Redox Biol. 2021 Jul;43:101998. *LPS decreases CFTR open probability and mucociliary transport through generation of reactive oxygen species*. Do Yeon Cho, Shaoyan Zhang, Ahmed Lazrak, Daniel Skinner, Harrison M Thompson, Jessica Grayson, Purushotham Guroji , Saurabh Aggarwal, Zsuzsanna Bebok, **Steven M Rowe**, Sadis Matalon, Eric J Sorscher, Bradford A Woodworth.

Redox Biol. 2021 May 17;44:102009. *Chlorine inhalation induces acute chest syndrome in humanized sickle cell mouse model and ameliorated by postexposure hemopexin*. **Ammar Saadoon Alishlash**, Muna Sapkota, Israr Ahmad, Kelsey Maclin, Noor A Ahmed, Adam Molyvdas , Stephen Doran, Carolyn J Albert, Saurabh Aggarwal, David A Ford, Namasivayam Ambalavanan, Tamas Jilling, Sadis Matalon.

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Respir Res. 2021 Feb 1;22(1):30. *Inhaled high molecular weight hyaluronan ameliorates respiratory failure in acute COPD exacerbation: a pilot study*. Flavia Galdi, Claudio Pedone, Christopher A McGee, Margaret George, Annette B Rice, Shah S Hussain, Kadambari Vijaykumar, Evan R Boitet, Guillermo J Tearney, John A McGrath, Audrey R Brown, **Steven M Rowe**, Raffaele A Incalzi, Stavros Garantziotis.

Sleep Med. 2021 Aug;84:93-97. *Validation of pediatric sleep questionnaire in children with Chiari malformation and/or spina bifida with or without myelomeningocele.* **Guillermo Beltran Ale**, John Pascoe, Alisha George, Jason Woodward, Md Monir Hossain, Guixia Huang, Narong Simakajornboon