

Clinical ICU medicine:

Giora Netzer (GNetzer@som.umaryland.edu):



Dr. Netzer is formally trained in pulmonary and critical care medicine and clinical epidemiology and is Director of Clinical Research for the Pulmonary and Critical Care Medicine Division. His past research focused on risk factors associated with worse outcomes in ARDS. His current research is focused on identifying sources of morbidity among family members of patients in the intensive care unit, concentrating on using validated measures to quantify potential deficits potentially compromising effective decision-making. He serves as Director of Family-Centered ICU care for the University of Maryland Medical Center.

Highlighted Publications:

1. Sullivan DR, Liu X, Corwin DS, Verceles AC, McCurdy MT, Pate DA, Davis JM, **Netzer G**. "Learned Helplessness Among Families and Decision-makers of Patients Admitted to Medical, Surgical, and Trauma Intensive Care Units." *Chest*. 142(6): 1440-1446, 2012. PMID: 22661454.
2. Afshar M, Smith GS, Terrin ML, Barrett M, Lissauer MD, Mansoor S, Jeudy J, **Netzer G**. "Blood Alcohol Content, Injury Severity and Acute Respiratory Distress Syndrome." *The Journal of Trauma and Acute Care Surgery*. 76(6): 1447-1466, 2014. PMID: 24854314.
3. Fusaro MV, Nielsen ND, Nielsen A, Fontaine MJ, Hess JR, Reed RM, DeLisle S, **Netzer G**. "Restrictive Versus Liberal Red Blood Cell Transfusion Strategy Following Hip Surgery: A Decision Model Analysis of Healthcare Costs." *Transfusion*. 57(2):357-366, 2017. PMID: 28019009.
4. Leiter N, Motta M, Reed RM, Adeyeye T, Wiegand DL, Shah NG, Verceles AC, **Netzer G**. "Numeracy and Interpretation of Prognostic Estimates in Intracerebral Hemorrhage Among Surrogate Decision Makers in the Neurologic ICU." *Critical Care Medicine*. 2018, 46:264-71, PMID:29215368.

Links:

Faculty webpage: <http://www.medschool.umaryland.edu/profiles/Netzer-Giora/>

PubMed publications:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/16itinuBusjkB/bibliography/49607537/public/?sort=date&direction=ascending>

Carl Shanholtz (Cshanholt@som.umaryland.edu):

Dr. Shanholtz has had a longstanding interest in improving management of critically ill patients and has a long and successful record of clinical research in critical illness in general, and acute respiratory distress syndrome specifically. Together Dr. Roy Brower, Dr. Shanholtz conducted the phase II clinical trial of low tidal volume ventilation in ARDS on which the ARDSNet ALVEOLI study was based and he has been site director for ARDSnet-I and II. Dr. Shanholtz also studies pain management/sedation pathways and pain assessment in critically ill patients, methods to reduce fluid administration to critically ill patients, and is a co-investigator on Dr. Hasday's clinical trial of therapeutic hypothermia in ARDS patients.

Highlighted Publications:

1. Netzer G, Dowdy DW, Harrington T, Chandolu S, Dinglas VD, Shah NG, Colantuoni E, Mendez-Tellez PA, Shanholtz C, Hasday JD, Needham DM. Fever is associated with delayed ventilator liberation in acute lung injury. *Ann Am Thorac Soc*. 2013 Dec;10(6):608-15. PubMed PMID: [24024608](#); PubMed Central PMCID: [PMC3960965](#).
2. Shah NG, Cowan MJ, Pickering E, Sareh H, Afshar M, Fox D, Marron J, Davis J, Herold K, Shanholtz CB, Hasday JD. Nonpharmacologic approach to minimizing shivering during surface cooling: a proof of principle study. *J Crit Care*. 2012 Dec;27(6):746.e1-8. PubMed PMID: [22762936](#); PubMed Central PMCID: [PMC3494806](#).
3. Ventilation with lower tidal volumes as compared with traditional tidal volumes for acute lung injury and the acute respiratory distress syndrome. The Acute Respiratory Distress Syndrome Network. *N Engl J Med*. 2000 May 4;342(18):1301-8. PubMed PMID: [10793162](#).
4. Brower RG, Shanholtz CB, Fessler HE, Shade DM, White P Jr, Wiener CM, Teeter JG, Dodd-o JM, Almog Y, Piantadosi S. Prospective, randomized, controlled clinical trial comparing traditional versus reduced tidal volume ventilation in acute respiratory distress syndrome patients. *Crit Care Med*. 1999 Aug;27(8):1492-8. PubMed PMID: [10470755](#).
5. Slack DF, Corwin DS, Shah NG, Shanholtz CB, Verceles AC, Netzer G, Jones KM, Brown CH, Terrin ML, Hasday JD. Pilot Feasibility Study of Therapeutic Hypothermia for Moderate to Severe Acute Respiratory Distress Syndrome. *Crit Care Med*. 2017 45:1152-59; PubMed PMID: [28406814](#).

Links:

Med School faculty page: <http://www.medschool.umaryland.edu/profiles/Shanholtz-Carl/>

PubMed publications:

<https://www.ncbi.nlm.nih.gov/myncbi/browse/collection/47839782/?sort=date&direction=ascending>

Michael Terrin (MTERRIN@som.umaryland.edu):



Dr. Terrin is a pulmonologist and formally trained epidemiologist and clinical trialist who has mentored multiple physicians in the design and execution of large clinical trials. He has been Principal Investigator of the Administrative and Data Coordinating Centers for several large and successful NIH studies including the NHLBI-sponsored Prospective Investigation of Pulmonary Embolism Diagnosis (PIOPED), the Multicenter Study of Hydroxyurea in Sickle Cell Anemia (MSH), and the NHLBI-sponsored Functional Outcomes in Cardiovascular Patients Undergoing Surgical Hip Fracture Repair (FOCUS) Clinical Trial, the NIA-sponsored Non-Invasive Trial of Abdominal Aortic Aneurysm Clinical Trial (N-TA³CT), NICHD-sponsored AZIP trial, and the NHLBI Progenitor Cell Biology Consortium (PCBC) Administrative Coordinating Center. He is an internationally recognized expert in study design, study organization and management, data management, and data analysis.

Highlighted Publications:

1. Gore J, Sloan M, Price T, Randall AMY, Bovill E, Collen D, Forman S, Knatterud G, Sopko G, Terrin ML and the TIMI Investigators. Intracranial hemorrhage, cerebral infarction, and subdural hematoma following acute myocardial infarction and thrombolytic therapy in the Thrombolysis in Myocardial Infarction Study (TIMI II Pilot and Randomized Clinical Trial). *Circulation* 1991;83:448-459.
2. Schulman SP, Becker LC, Kass DA et al. L-Arginine Therapy in Acute Myocardial Infarction. *JAMA* 2006; 295:58-64.
3. Charache S, Terrin ML, Moore RD, Dover GJ, Barton FB, Eckert SV, McMahon RP, Bonds DR and the Investigators of the Multicenter Study of Hydroxyurea in Sickle Cell Anemia. Effect of hydroxyurea on the frequency of painful crises in sickle cell anemia. *NEJM* 1995;332:1317-1322.
4. Hassan H, Othman AA, Eddington ND, Duffy L, Xiao L, Waites KB, Kaufman DA, Fairchild KD, Terrin ML, Viscardi RM. Pharmacokinetics, Safety, and Biologic Effects of Azithromycin in Extremely Preterm Infants at Risk for Ureaplasma Colonization and Bronchopulmonary Dysplasia. *J Clin Pharmacol* 2011; 51:1264-1275. [PMCID:PMC4240745]
5. Baxter TB, Matsumura J, Curci J, McBride R, Blackwelder WC, Liu X, Larson L, and Terrin ML. Non-Invasive Treatment of Abdominal Aortic Aneurysm Clinical Trial(N-TA³CT): Design of a Phase IIb, Placebo-Controlled, Double-Blind, Randomized Clinical Trial of Doxycycline for the Reduction of Growth of Small Abdominal Aortic Aneurysm. *Contemporary Clinical Trials* 2016; 48:91-98. doi: 10.1016/j.cct.2016.03.008. Epub 2016 Mar 25.

Links:

Med School faculty page: <http://www.medschool.umaryland.edu/profiles/Terrin-Michael/>

PubMed publications:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/collections/bibliography/48077438/>