

*Group Name(s): BOUGIE Investigators and the Pragmatic Critical Care Research Group										
*First Name and Middle Initial(s)	*Last Name	*Suffix (eg, Jr, III)	Academic Degrees	Institution	Location (city, state/province, country)	Role or Contribution, eg, chair, principal investigator				
Christopher S	Gray		RN	Department of Emergency Medicine, Vanderbilt University Medical Center	Nashville, TN, USA	Conducted study activities to substantially contribute to the acquisition of data for the work; critical revision of the manuscript for important intellectual content; final approval of manuscript publication				
Andrea	Fletcher		RN	Department of Emergency Medicine, Vanderbilt University Medical Center	Nashville, TN, USA	Conducted study activities to substantially contribute to the acquisition of data for the work; critical revision of the manuscript for important intellectual content; final approval of manuscript publication				
Sally	Dye		RN	Department of Emergency Medicine, Vanderbilt University Medical Center	Nashville, TN, USA	Conducted study activities to substantially contribute to the acquisition of data for the work; critical revision of the manuscript for important intellectual content; final approval of manuscript publication				
Swati	Gulati		MBBS, MS	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Conducted study activities to substantially contribute to the acquisition of data for the work; critical revision of the manuscript for important intellectual content; final approval of manuscript publication				
Michael C	Kurz		MD, MS	Department of Emergency Medicine, University of Alabama at Birmingham	Birmingham, AL, USA	Conducted study activities to substantially contribute to the acquisition of data for the work; critical revision of the manuscript for important intellectual content; final approval of manuscript publication				
Carolyn	Lyie		PA-C, MPH	Department of Emergency Medicine, Denver Health Medical Center	Denver, CO, USA	Conducted study activities to substantially contribute to the acquisition of data for the work; critical revision of the manuscript for important intellectual content; final approval of manuscript publication				
Stephanie	Gravitz		MPH	Department of Emergency Medicine, Denver Health Medical Center, Denver	Denver, CO, USA	Conducted study activities to substantially contribute to the acquisition of data for the work; critical revision of the manuscript for important intellectual content; final approval of manuscript publication				
Erica LW	Rice		DO	Department of Emergency Medicine, Wake Forest Baptist Health	Winston-Salem, NC, USA	Conducted study activities to substantially contribute to the acquisition of data for the work; critical revision of the manuscript for important intellectual content; final approval of manuscript publication				
Nahaniel D	Westphal		MD, MS	Department of Emergency Medicine, Wake Forest Baptist Health	Winston-Salem, NC, USA	Conducted study activities to substantially contribute to the acquisition of data for the work; critical revision of the manuscript for important intellectual content; final approval of manuscript publication				
Itay	Benfroy		MD, PhD	University of Washington Department of Anesthesiology and Pain Medicine	Seattle, WA, USA	Conducted study activities to substantially contribute to the acquisition of data for the work; critical revision of the manuscript for important intellectual content; final approval of manuscript publication				
Jamie	Stang		BS	Hennepin County Medical Center, Department of Emergency Medicine	Minneapolis, MN, USA	Conducted study activities to substantially contribute to the acquisition of data for the work; critical revision of the manuscript for important intellectual content; final approval of manuscript publication				
Dalvin	DeVries		BS	Hennepin County Medical Center, Department of Emergency Medicine	Minneapolis, MN, USA	Conducted study activities to substantially contribute to the acquisition of data for the work; critical revision of the manuscript for important intellectual content; final approval of manuscript publication				
Elan	Marugol		BA	Hennepin County Medical Center, Department of Emergency Medicine	Minneapolis, MN, USA	Conducted study activities to substantially contribute to the acquisition of data for the work; critical revision of the manuscript for important intellectual content; final approval of manuscript publication				
Bradley	Lloyd		RRT-ACC	Vanderbilt University Medical Center	Nashville, TN, USA	Assisted with data acquisition				
Anthony T	Defebio		RRT-ACC	University of Colorado Hospital, Department of Emergency Medicine	Aurora, CO, USA	Assisted with data acquisition				
Fevziat	Murhamet		RRT-ACC	University of Colorado Hospital, Department of Emergency Medicine	Aurora, CO, USA	Assisted with data acquisition				
Rohit	Mitchel		RRT	University of Colorado Hospital, Department of Emergency Medicine	Aurora, CO, USA	Assisted with data acquisition				
Justin N	Oeth		MSN	University of Colorado Hospital, Department of Emergency Medicine	Aurora, CO, USA	Assisted with data acquisition				
Angela	Otoo		RRT	University of Colorado Hospital, Department of Emergency Medicine	Aurora, CO, USA	Assisted with data acquisition				
Elizabeth A	Farmer		RRT	University of Colorado Hospital, Department of Emergency Medicine	Aurora, CO, USA	Assisted with data acquisition				
Dyrene A	Dunn		RRT	University of Colorado Hospital, Department of Emergency Medicine	Aurora, CO, USA	Assisted with data acquisition				
Coni	Withers		BS	University of Colorado Hospital, Department of Emergency Medicine	Aurora, CO, USA	Assisted with data acquisition				
Jennifer	Friedel		BS	University of Colorado Hospital, Department of Emergency Medicine	Aurora, CO, USA	Assisted with data acquisition				
Karina M	Nava		RRT-ACC	University of Colorado Hospital, Department of Emergency Medicine	Aurora, CO, USA	Assisted with data acquisition				
Anna	Aiz-Stamm		RN	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Christina	Reidley		MD, PhD	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Mary C	Boone		RN	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Joe W	Crites III		MD	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Kristina	Collins		RN	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Abby	Diescher		RN	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Kevin G	Dapouza		MD	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Janna	Dunn		RN	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Stacy	Elam		MD	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Josh	Gashday		MD	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Nicole	Harris		RN	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Savannah	Harris		RN	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Tanner	Husall		MD	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
R. Chad	Wade		MD	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Ruthi	Joah		MBBS	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Daniel	Kelmenson		MD	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Anne M	Mason		RN	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Scott R	Merriman		MD	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Talagudwa	Mikozombodo		MD	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Meagan	Moore		RN	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Jada	Nowak		RN	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Kate	O'Connor		DO	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Shevyan D	Patel		MD	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
G. Brian	Parsons		MD	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Lisa	Saroff		RN	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Tabitha	Stewart		RN	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
William S	Stolier		MD	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Kadambari	Vajayumar		MBBS	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Gina	White		RN	University of Alabama at Birmingham, Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine	Birmingham, AL, USA	Assisted with data acquisition				
Stephanie C	Demasi		MD	Department of Emergency Medicine, University of Alabama at Birmingham	Birmingham, AL, USA	Assisted with data acquisition				
Laura E	Goyack		MD	Department of Emergency Medicine, University of Alabama at Birmingham	Birmingham, AL, USA	Assisted with data acquisition				
Kristy K	Ford		MD	Department of Emergency Medicine, Wake Forest Baptist Health	Winston-Salem, NC, USA	Assisted with data acquisition				
Trevor S	Mattov		MD	Department of Emergency Medicine, Wake Forest Baptist Health	Winston-Salem, NC, USA	Assisted with data acquisition				
Takato	Walsh		MD, MBA	Department of Emergency Medicine, University of Washington School of Medicine	Seattle, WA, USA	Assisted with data acquisition				
Layla	Anderson		BA	Department of Emergency Medicine, University of Washington School of Medicine	Seattle, WA, USA	Assisted with data acquisition				
Abica K	Cupelo		MSW	Department of Emergency Medicine, Denver Health Medical Center	Denver, CO, USA	Assisted with data acquisition				
Nathan J	Lacey		MD	Department of Emergency Medicine, Vanderbilt University Medical Center	Nashville, TN, USA	Assisted with data acquisition				