

Supplementary data

Supplementary Table 1. Current inclusion and exclusion criteria.

Inclusion Criteria
Age \geq 18 years
Clinical signs and symptoms consistent with acute PE
Echo, CTPA, or pulmonary angiographic evidence of proximal filling defect in at least one main or lobar pulmonary artery
Scheduled for PE treatment with the FlowTriever System per the Investigator's discretion
Exclusion Criteria
Unable to anticoagulate with heparin or alternative
Diagnosis with a minor PE with < 0.9 RV/LV ratio
Known sensitivity to radiographic contrast agents that, in the Investigator's opinion, cannot be adequately pre-treated
Imaging evidence or other evidence that suggests, in the Investigator's opinion, the patient is not appropriate for mechanical thrombectomy intervention
Life expectancy < 30 days, as determined by the Investigator
Current participation in another drug or device treatment study that, in the Investigator's opinion, would interfere with participation in this study

CTPA: computed tomography pulmonary angiography; LV: left ventricle; PE: pulmonary embolism; RV: right ventricle.

Supplementary Table 2. Relative and absolute contraindications to thrombolytics.

Relative
Blood pressure of $\geq 180/110$ mmHg
Recent bleeding, surgery, or invasive procedure
Ischemic stroke more than 3 months previously
Anticoagulation therapy
Traumatic cardiopulmonary resuscitation
Pericarditis or pericardial fluid
Diabetic retinopathy
Pregnancy
Age >75 years
Weight <60 kg
Absolute
Previous intracranial hemorrhage at any time
Ischemic stroke in the past 3 months
Active bleeding
Recent neurological procedure
Recent head trauma involving fracture or brain injury
Bleeding diathesis
Structural intracranial disease

Supplementary Table 3. Listing of SAE at 48 hours.

SAEs	N=35
Anemia	4
Acute respiratory failure	2
Atrial fibrillation	1
Atrial thrombosis	1
Blood loss anemia	1
Bradycardia	1
Bundle branch block left	1
Cardiac procedure complication	1
Cardio-respiratory arrest	1
Cerebrovascular accident	1
Chest discomfort	1
Deep vein thrombosis	2
Hemoglobin decreased	1
Hemorrhage	1
Hypotension	1
Hypovolemic shock	1
Peripheral ischemia	1
Pulmonary embolism	2
Retroperitoneal hematoma	2
Shock	1
Vascular access site hematoma	4
Vascular access site hemorrhage	2
Vascular pseudoaneurysm	1
Ventricular tachycardia	1

SAE terms follow Medical Dictionary for Regulatory Activities (MedDRA) terminology.
SAE: serious adverse event.

Supplementary Table 4. PI and sites.

PI	Site
Toma, Catalin (Global FLASH PI)	University of Pittsburgh Medical Center (Pittsburgh, PA)
Jaber, Wissam	Emory University (Atlanta, GA)
Weinberg, Mitchell	Northwell Health (Staten Island, NY)
Bunte, Matthew; Wible, Brandt	Saint Luke's MidAmerica Heart Institute (Kansas City, MO)
Stegman, Brian	CentraCare Heart & Vascular Center (St. Cloud, MN)
Khandhar, Sameer	University of Pennsylvania (Philadelphia, PA)
Gondi, Sreedevi	Baptist Health Louisville (Louisville, KY)
Chambers, Jeffrey	Metropolitan Heart & Vascular Institute (Minneapolis, MN)
Amin, Rohit	Ascension Sacred Heart Hospital (Pensacola, FL)
Leung, Daniel	Christiana Care Health Services (Newark, DE)
Pollak, Jeffrey	Yale University (New Haven, CT)
Kado, Herman	Ascension Providence Hospital (Southfield, MI)
Sarosi, Michael	St. Joseph Mercy Hospital (Ann Arbor, MI)
Brown, Michael	Missouri Cardiovascular Specialists (Columbia, MO)
Castle, Jordan	Inland Imaging, Providence Sacred Heart (Spokane, WA)
Bhat, Ambarish	University of Missouri, Columbia (Columbia, MO)
Savin, Michael	Oakland University William Beaumont School of Medicine (Royal Oak, MI)
Siskin, Gary	Albany Medical Center (Albany, NY)
Beam, Daren/Stewart, Lauren Kathryn	Indiana University School of Medicine (Indianapolis, IN)
Brancheau, Daniel	Ascension Genesys Hospital (Grand Blanc, MI)
Ahmed, Mustafa	UAB Division of Cardiovascular Disease (Birmingham, AL)
Rosenberg, Michael; Fanola, Christina	University of Minnesota (Minneapolis, MN)
Elmasri, Fakhir	Lakeland Vascular Institute (Lakeland, FL)
Zlotnick, David	SUNY, The University at Buffalo (Buffalo, NY)
Bisharat, Mohannad	Memorial Hospital Jacksonville (Jacksonville, FL)

Butros, Paul	Inova Health System (Fairfax, VA)
Koenig, Gerald	Henry Ford Health System (Detroit, MI)
Zybulewski, Adam; *Olivieri, Brandon, *Beasley, Robert	Mount Sinai Medical Center of Florida (Miami, FL)
Angel, Wesley; Roberts, Jon	Methodist Healthcare Foundation (Germantown, TN)
Kerrigan, Jimmy	Ascension St. Thomas West (Nashville, TN)
Li, Jun	University Hospitals Cleveland Medical Center (Cleveland, OH)
Schimmel, Daniel	Northwestern University (Chicago, IL)
Balderman, Joshua	Pima Heart and Vascular (Tucson, AZ)
Patton, Marquand	Palmetto General Hospital (Hialeah, FL)
Walker, Chris	UTMC Knoxville (Knoxville, TN)
Gonsalves, Carin	Thomas Jefferson University (Philadelphia, PA)
Kasmikha, Zaid; *Qaqi, Osama	Ascension Providence Rochester Hospital (Rochester, MI)
Veerina, Kalyan	Opelousas General (Opelousas, LA)
Dexter, David	Sentara (Norfolk, VA)
Lookstein, Robert	Mount Sinai Medical Center (New York, NY)
Lasic, Zoran	Jamaica Hospital/Lenox Hill (New York, NY)
Mahjoobi, Maziar	Texoma Medical Center (Denison, TX)
Paul, Jonathan	University of Chicago (Chicago, IL)
Tumuluri, Ramagopal	Aurora St. Luke's Medical Center (Milwaukee, WI)
Horowitz, James	NYU Langone Medical Center (New York, NY)
Lee, Justin	Sarasota Memorial (Sarasota, FL)
Leonardi, Robert	Lexington Medical Center (Lexington, KY)
Patel, Mitul	Valley Health (Ridgewood, NJ)
Rothschild, Daniel	Norton Healthcare (Louisville, KY)
Tabriz, David	Rush University Medical Center (Chicago, IL)

*Past PIs. PI: principal investigator.